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**ST06. Dollar Summary of Federal Supply
Classification and Service Category by
Company**

March 15

(Previous Title: Prime Contract Awards Over \$25,000
by Federal Supply Classification (FSC)
and Service Codes (SVC))

This is a listing of DoD prime contract awards over \$25,000 by FSC and SVC codes, subdivided by awards for Research, Development, Test, and Evaluation (RTD&E); services; and supplies and equipment. The tabulation includes the code, contractor name, principal State of performance, awarding Department, and net value of awards. (Approximately 4,200 pages)

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

PAGE 1

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION-----	
AB91 (CONTINUED)					
AB91	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Community Svcs & Develop-Basic	\$ 2,608
AB96	Y M C A OF THE UNITED STATES	Hawaii	NAVY	RDTE/Other Community Svcs & Develop-Mgmt &	195
AC11	ALLIED SIGNAL AEROSPACE CO	Arizona	NAVY	RDTE/Aircraft-Basic Research	60
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Basic Research	43
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Aircraft-Basic Research	65
	DECEL INC	Florida	NAVY	RDTE/Aircraft-Basic Research	370
	EAGLE TECHNOLOGY INC	Virginia	NAVY	RDTE/Aircraft-Basic Research	633
	ELECTROSPACE SYSTEMS INC	Florida	USAF	RDTE/Aircraft-Basic Research	1,009
	G T E LABORATORIES INC	Mass	NAVY	RDTE/Aircraft-Basic Research	40
	GENERAL ELECTRIC CO	Ohio	NAVY	RDTE/Aircraft-Basic Research	398
	GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Aircraft-Basic Research	1,465
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Aircraft-Basic Research	1,168
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Basic Research	319
	HONEYWELL INC	Minnesota	USAF	RDTE/Aircraft-Basic Research	25
	LIFE SYSTEMS INC	Ohio	ARMY	RDTE/Aircraft-Basic Research	240
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Aircraft-Basic Research	1,335
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Aircraft-Basic Research	115
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Aircraft-Basic Research	79
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Aircraft-Basic Research	3,848
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Aircraft-Basic Research	717
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Aircraft-Basic Research	53
	WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Aircraft-Basic Research	350
	R&D TOTAL				12,332
AC12	A A I CORPORATION	Maryland	ARMY	RDTE/Aircraft-Exploratory Development	2,605

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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC12 (CONTINUED)					
	ALLIED SIGNAL AEROSPACE CO	Arizona	ARMY	RDTE/Aircraft-Exploratory Development	61
		California	NAVY	RDTE/Aircraft-Exploratory Development	474
	CONTRACTOR TOTAL				535
ANAMET LABORATORIES INC	Ohio	USAF	RDTE/Aircraft-Exploratory Development	513	
APPLICATIONS RESEARCH CORP	Penn	NAVY	RDTE/Aircraft-Exploratory Development	1,060	
ATLANTIC SCIENCE & TECHNOLOGY	Penn	NAVY	RDTE/Aircraft-Exploratory Development	473	
BATTELLE MEMORIAL INSTITUTE	Ohio	NAVY	RDTE/Aircraft-Exploratory Development	134	
		USAF	RDTE/Aircraft-Exploratory Development	272	
	COUNTRY TOTAL				406
BDM SERVICES COMPANY	Virginia	ARMY	RDTE/Aircraft-Exploratory Development	75	
BELL HELICOPTER INTERNATIONAL	Texas	ARMY	RDTE/Aircraft-Exploratory Development	38	
BIHRLE APPLIED RESEARCH INC	Virginia	USAF	RDTE/Aircraft-Exploratory Development	205	
BOEING COMPANY THE	Penn	ARMY	RDTE/Aircraft-Exploratory Development	525	
	Washington	NAVY	RDTE/Aircraft-Exploratory Development	148	
		USAF	RDTE/Aircraft-Exploratory Development	170	
	COUNTRY TOTAL				318
	CONTRACTOR TOTAL				843
BURNETTE ENGINEERING	Ohio	USAF	RDTE/Aircraft-Exploratory Development	106	
CALSPAN CORPORATION	New York	USAF	RDTE/Aircraft-Exploratory Development	43	
CHROMATICS INC	Georgia	NAVY	RDTE/Aircraft-Exploratory Development	80	
CONRAD TECHNOLOGIES INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	209	
DCS CORPORATION	Virginia	NAVY	RDTE/Aircraft-Exploratory Development	287	
DISPLAYTECH INC	Colorado	NAVY	RDTE/Aircraft-Exploratory Development	497	
DU PONT E I DE NMOURS COMPANY	Delaware	NAVY	RDTE/Aircraft-Exploratory Development	59	

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

		(AMOUNTS IN THOUSANDS)		R&D DESCRIPTION	
R&D	CONTRACTOR NAME	COUNTRY	DEPT		
AC12 (CONTINUED)					
	EAGLE TECHNOLOGY INC	California	NAVY	RDTE/Aircraft-Exploratory Development	\$ 90
	FRACTURE TECHNOLOGY ASSOCIATES	Penn	NAVY	RDTE/Aircraft-Exploratory Development	39
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Exploratory Development	58
	GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Aircraft-Exploratory Development	168
		Ohio	NAVY USAF	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	780 659
	COUNTRY TOTAL				1,439
		Penn	NAVY	RDTE/Aircraft-Exploratory Development	100
	CONTRACTOR TOTAL				1,707
	GENERAL MOTORS CORPORATION	Indiana	ARMY NAVY USAF	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	35 125 440
	COUNTRY TOTAL				600
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Exploratory Development	44
	HONEYWELL INC	Minnesota	NAVY	RDTE/Aircraft-Exploratory Development	160
	INTERMETRICS INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	200
	JALORDS INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	75
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Aircraft-Exploratory Development	132
	KESTREL INSTITUTE	California	NAVY	RDTE/Aircraft-Exploratory Development	469
	KETRON INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	159
	LOCKHEED CORPORATION	California	NAVY	RDTE/Aircraft-Exploratory Development	50
		New Jersey	ARMY	RDTE/Aircraft-Exploratory Development	27
	CONTRACTOR TOTAL				77
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Aircraft-Exploratory Development	198

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC12 (CONTINUED)					
	LOGISTICS MANAGEMENT ENRG	Penn	NAVY	RDTE/Aircraft-Exploratory Development	323
	LOUISIANA TECH UNIVERSITY	Louisiana	NAVY	RDTE/Aircraft-Exploratory Development	25
	LTV AEROSPACE & DEF CO	Texas	NAVY	RDTE/Aircraft-Exploratory Development	380
	MARMON MOTOR COMPANY	Texas	ARMY	RDTE/Aircraft-Exploratory Development	642
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Aircraft-Exploratory Development	272
		Maryland	NAVY	RDTE/Aircraft-Exploratory Development	671
	CONTRACTOR TOTAL				943
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Aircraft-Exploratory Development	80
	MC DONNELL DOUGLAS CORPORATION	Missouri	NAVY USAF	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	470 193
	COUNTRY TOTAL				663
	MC DONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Exploratory Development	110
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Aircraft-Exploratory Development	349
	NAVMAR INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	221
	NORTHROP CORPORATION	California	ARMY NAVY USAF	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	260 175 570
	COUNTRY TOTAL				1,005
	P D A ENGINEERING	California	NAVY	RDTE/Aircraft-Exploratory Development	39
	PERCEPTRONICS INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	100
	RAYTHEON COMPANY	Mass	ARMY	RDTE/Aircraft-Exploratory Development	3,991
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Aircraft-Exploratory Development	111
	SCIENCE APPLICATIONS INTL CORP	Mass	NAVY	RDTE/Aircraft-Exploratory Development	448
	SIERRA NEVADA CORPORATION	Nevada	NAVY	RDTE/Aircraft-Exploratory Development	498

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION
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AC12 (CONTINUED)

SIMULA INC	Arizona	ARMY	RDTE/Aircraft-Exploratory Development	\$ 51
SPECIAL METALS CORPORATION	New York	USAF	RDTE/Aircraft-Exploratory Development	246-
SYNETICS CORPORATION	Mass	NAVY	RDTE/Aircraft-Exploratory Development	633
TELEDYNE INDUSTRIES INC	California	ARMY	RDTE/Aircraft-Exploratory Development	138
THERMACORE INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	244
UNITED TECHNOLOGIES CORP	Conn	ARMY NAVY	RDTE/Aircraft-Exploratory Development	125
			RDTE/Aircraft-Exploratory Development	3,550
COUNTRY TOTAL				3,675
Florida	ARMY NAVY		RDTE/Aircraft-Exploratory Development	95
			RDTE/Aircraft-Exploratory Development	71
COUNTRY TOTAL				166
CONTRACTOR TOTAL				3,841
UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Aircraft-Exploratory Development	25
UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Aircraft-Exploratory Development	393
VECTOR RESEARCH INC	Michigan	ARMY	RDTE/Aircraft-Exploratory Development	80
VITRO CORPORATION	Maryland	NAVY	RDTE/Aircraft-Exploratory Development	225
WILLIAMS INTERNATIONAL CORP	Michigan	ARMY USAF	RDTE/Aircraft-Exploratory Development	50
			RDTE/Aircraft-Exploratory Development	123
COUNTRY TOTAL				173
R&D TOTAL				27,527
AC13 ADROIT SYSTEMS INC	Virginia	USAF	RDTE/Aircraft-Advanced Development	138
ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Aircraft-Advanced Development	2,067
ANALYTIC SCIENCES CORP THE	Ohio	USAF	RDTE/Aircraft-Advanced Development	230
ANALYTICAL METHODS INC	Washington	USAF	RDTE/Aircraft-Advanced Development	104

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC13 (CONTINUED)						
	ANAMET LABORATORIES INC	Ohio	USAF	RDTE/Aircraft-Advanced Development	135	
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Aircraft-Advanced Development	3,370	
	AVCO CORPORATION	Conn	ARMY	RDTE/Aircraft-Advanced Development	1,782	
	BARNARD & ASSOCIATES	California	NAVY	RDTE/Aircraft-Advanced Development	30	
	BOEING CO & SIKORSKY ACFT JV	Penn	ARMY	RDTE/Aircraft-Advanced Development	57,000	
	BOEING COMPANY THE	Washington	NAVY	RDTE/Aircraft-Advanced Development	1,483	
			USAF	RDTE/Aircraft-Advanced Development	12,477	
				COUNTRY TOTAL	13,960	
	CENTURY COMPUTING INC	Ohio	USAF	RDTE/Aircraft-Advanced Development	274	
	DWA COMPOSITE SPECIALTIES INC	California	NAVY	RDTE/Aircraft-Advanced Development	129	
	ELDEC CORPORATION	Washington	ARMY	RDTE/Aircraft-Advanced Development	110	
	FAAC PERCEPTRONICS INC	Michigan	USAF	RDTE/Aircraft-Advanced Development	75	
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Advanced Development	38,324	
	GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Aircraft-Advanced Development	2,565	
		Ohio	USAF	RDTE/Aircraft-Advanced Development	202,194	
				CONTRACTOR TOTAL	204,759	
	GENERAL INSTRUMENT CORP DEL	New York	NAVY	RDTE/Aircraft-Advanced Development	32	
	GENERAL MOTORS CORPORATION	Indiana	USAF	RDTE/Aircraft-Advanced Development	4,261	
	GRUMMAN AEROSPACE CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	3,900	
		New York	USAF	RDTE/Aircraft-Advanced Development	1,095	
				CONTRACTOR TOTAL	4,995	
	HONEYWELL INC	Mass	NAVY	RDTE/Aircraft-Advanced Development	148	
		Minnesota	USAF	RDTE/Aircraft-Advanced Development	725	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
CONTRACTOR TOTAL						
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Advanced Development	873	
	LITTON SYSTEMS INC	Iowa	NAVY	RDTE/Aircraft-Advanced Development	158	
	LOCKHEED CORPORATION	California	NAVY USAF	RDTE/Aircraft-Advanced Development RDTE/Aircraft-Advanced Development	211 1,000 168,800	
	COUNTRY TOTAL		USAF	RDTE/Aircraft-Advanced Development	169,800	
	CONTRACTOR TOTAL		Georgia	RDTE/Aircraft-Advanced Development	1,840	
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Aircraft-Advanced Development	171,640	
	LORAL ELECTRO OPTICAL SYSTEMS	California	USAF	RDTE/Aircraft-Advanced Development	900	
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Aircraft-Advanced Development	200	
	MC DONNELL DOUGLAS CORPORATION	Maryland	NAVY	RDTE/Aircraft-Advanced Development	428	
		Missouri	NAVY USAF	RDTE/Aircraft-Advanced Development RDTE/Aircraft-Advanced Development	72 850 55,358	
	COUNTRY TOTAL		USAF	RDTE/Aircraft-Advanced Development	56,208	
	CONTRACTOR TOTAL		Arizona	ARMY	RDTE/Aircraft-Advanced Development	
	MCDONNELL DGLS BELL HEL TEX JV	Penn	USAF	RDTE/Aircraft-Advanced Development	56,280	
	MERCURY LPE COMPANY INC	California	USAF	RDTE/Aircraft-Advanced Development	57,000	
	NORTHROP CORPORATION	California	NAVY USAF	RDTE/Aircraft-Advanced Development RDTE/Aircraft-Advanced Development	290 117,567	
	ROCKWELL INTERNATIONAL CORP	Oklahoma	USAF	RDTE/Aircraft-Advanced Development	100 101,088	
	COUNTRY TOTAL		USAF	RDTE/Aircraft-Advanced Development	101,188	
	CONTRACTOR TOTAL				689	
					101,877	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC13 (CONTINUED)						
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Aircraft-Advanced Development	\$ 1,769	
		Virginia	USAF	RDTE/Aircraft-Advanced Development	1,000	
	CONTRACTOR TOTAL				2,769	
	SEMCOR INC	New Jersey	NAVY	RDTE/Aircraft-Advanced Development	2,620	
	SIMULA INC	Arizona	ARMY	RDTE/Aircraft-Advanced Development	91	
	SYNETICS CORPORATION	Mass	USAF	RDTE/Aircraft-Advanced Development	400	
	TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Aircraft-Advanced Development	228	
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Aircraft-Advanced Development	765	
	UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Aircraft-Advanced Development	266	620
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Aircraft-Advanced Development	550	
	VEDA INCORPORATED	Ohio	USAF	RDTE/Aircraft-Advanced Development	4,408	
		Penn	NAVY	RDTE/Aircraft-Advanced Development	3,460	
	CONTRACTOR TOTAL				7,868	
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Aircraft-Advanced Development	853	
	R&D TOTAL				1,121,968	
AC14 ALLIED SIGNAL AEROSPACE CO						
	CONTRACTOR TOTAL				362	
	ALLIED SIGNAL INC	California	NAVY	RDTE/Aircraft-Engineering Development	250	
	ARINC RESEARCH CORPORATION	Arizona	USAF	RDTE/Aircraft-Engineering Development	612	
	BDM INTERNATIONAL INC	Maryland	USAF	RDTE/Aircraft-Engineering Development	1,090	
	BELL BOEING JV	New Mexico	USAF	RDTE/Aircraft-Engineering Development	3,994	
	BELL HELICOPTER TEXTRON INC	Texas	NAVY	RDTE/Aircraft-Engineering Development	1,870	
		Texas	ARMY	RDTE/Aircraft-Engineering Development	274,178	
			NAVY	RDTE/Aircraft-Engineering Development	1,011-	
					5,632	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	TOTAL
	BICRON CORP	California	NAVY	RDTE/Aircraft-Engineering Development	4,621	71
	BOEING COMPANY THE	Alabama	USAF	RDTE/Aircraft-Engineering Development	7,252	
	Penn		ARMY	RDTE/Aircraft-Engineering Development	1,614	
			NAVY	RDTE/Aircraft-Engineering Development	1,669	
		COUNTRY TOTAL			3,283	
		Washington	NAVY	RDTE/Aircraft-Engineering Development	67-	
			USAF	RDTE/Aircraft-Engineering Development	91,816	
		COUNTRY TOTAL			91,749	
					102,284	
	CAE INDUSTRIES LTD	Arizona	USAF	RDTE/Aircraft-Engineering Development	623	
	CALSPAN CORPORATION	New York	USAF	RDTE/Aircraft-Engineering Development	225	
	CAS INC	Alabama	ARMY	RDTE/Aircraft-Engineering Development	2,592	
	COLLINS INTERNATIONAL SVC CO	Iowa	ARMY	RDTE/Aircraft-Engineering Development	1,188	
	COMMUNICATIONS ELEC INTL	Florida	NAVY	RDTE/Aircraft-Engineering Development	43	
	COMPUTER SCIENCES CORPORATION	New Jersey	NAVY	RDTE/Aircraft-Engineering Development	428	
	CTA INCORPORATED	Colorado	USAF	RDTE/Aircraft-Engineering Development	242	
	E SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Engineering Development	1,045	
	EATON CORPORATION	New York	USAF	RDTE/Aircraft-Engineering Development	28,286	
	ECC INTERNATIONAL CORP	Florida	USAF	RDTE/Aircraft-Engineering Development	11,142	
	Penn		USAF	RDTE/Aircraft-Engineering Development	368	
		COUNTRY TOTAL			11,510	
	ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Engineering Development	1,540	
	FORD AEROSPACE COMMCTIONS CORP	California	NAVY	RDTE/Aircraft-Engineering Development	4,178	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$	
AC1.4 (CONTINUED)						
GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Aircraft-Engineering Development		\$ 1,712	
	Texas	USAF	RDTE/Aircraft-Engineering Development			11,141
CONTRACTOR TOTAL	Mass	ARMY NAVY	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development			9,429
GENERAL ELECTRIC CO	COUNTRY TOTAL					195
	Ohio	USAF	RDTE/Aircraft-Engineering Development			743-
CONTRACTOR TOTAL	Washington	ARMY	RDTE/Aircraft-Engineering Development			548-
GENERAL MOTORS CORPORATION	Indiana	NAVY USAF	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development			52,489
	COUNTRY TOTAL					167
GEORGIA TECH RESEARCH INST	Georgia	NAVY	RDTE/Aircraft-Engineering Development			52,108
GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Engineering Development			5,657
H R TEXTRON INC	California	NAVY	RDTE/Aircraft-Engineering Development			6,678
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Engineering Development			6,335
HUGHES TRAINING SYS INC	Texas	USAF	RDTE/Aircraft-Engineering Development			75
ISRAEL AIRCRAFT IND'S INTL	ISRAEL	USAF	RDTE/Aircraft-Engineering Development			75
LIGHT HELICOPTER TURBIN ENG	Missouri	ARMY	RDTE/Aircraft-Engineering Development			187,980
LITTON SYSTEMS INC	Iowa	NAVY	RDTE/Aircraft-Engineering Development			105
LOCKHEED CORPORATION	California	NAVY USAF	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development			6,212
LOCKHEED MISSILES & SPACE CO	Texas	ARMY	RDTE/Aircraft-Engineering Development			5,774
	COUNTRY TOTAL					38
						147
						47,926
						54,734
						1,950
						56,684
						250

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
C14 (CONTINUED)						
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Aircraft-Engineering Development	\$ 278	
	MARQUARDT COMPANY THE	California	NAVY	RDTE/Aircraft-Engineering Development	220	
	MC DONNELL DOUGLAS CORPORATION	California	NAVY USAF	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development	1,162,435 1,154,414	
	COUNTRY TOTAL	Missouri	NAVY USAF	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development	1,316,849	
	COUNTRY TOTAL	Missouri	NAVY	RDTE/Aircraft-Engineering Development	4,551	
	COUNTRY TOTAL	New York	NAVY	RDTE/Aircraft-Engineering Development	19,756	
	CONTRACTOR TOTAL	Arizona	ARMY	RDTE/Aircraft-Engineering Development	24,307	
	MC DONNELL DOUGLAS HELICOPTER	Oklahoma	USAF	RDTE/Aircraft-Engineering Development	48,004	
	MC DONNELL DOUGLAS TRNG S S	Missouri	NAVY	RDTE/Aircraft-Engineering Development	26,155	
	MC DONNELL DGLS GEN DYNAMICS JV	Texas	NAVY	RDTE/Aircraft-Engineering Development	200,000	
	CONTRACTOR TOTAL	Georgia	USAF	RDTE/Aircraft-Engineering Development	420,000	
	MERCER UNIVERSITY	Missouri	ARMY	RDTE/Aircraft-Engineering Development	620,000	
	MIDWEST RESEARCH INSTITUTE	Penn	NAVY	RDTE/Aircraft-Engineering Development	3,900	
	PACER SYSTEMS INC	Florida	NAVY	RDTE/Aircraft-Engineering Development	300	
	PARAGON GRAPHICS INC	Texas	ARMY	RDTE/Aircraft-Engineering Development	527	
	R & D AERONAUTICAL ENGRG CO	California	USAF	RDTE/Aircraft-Engineering Development	125	
	ROCKWELL INTERNATIONAL CORP	Maryland	NAVY	RDTE/Aircraft-Engineering Development	375	
	SCIENTIFIC MGT ASSOCIATES	Missouri	ARMY	RDTE/Aircraft-Engineering Development	132,690	
	STG ELECTROSYSTEMS INC	California	USAF	RDTE/Aircraft-Engineering Development	96	
	TELEDYNE INDUSTRIES INC			RDTE/Aircraft-Engineering Development	575	
					41	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC14 (CONTINUED)						
		Ohio	USAF	RDTE/Aircraft-Engineering Development	\$ 420	
	CONTRACTOR TOTAL					461
UNITED TECHNOLOGIES CORP	Conn	NAVY USAF	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development			5,844 200
	COUNTRY TOTAL					6,044
	Florida	NAVY USAF	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development			2,082 26,534
	COUNTRY TOTAL					28,616
	CONTRACTOR TOTAL					34,660
UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Aircraft-Engineering Development			683
VEDA INCORPORATED	Virginia	NAVY	RDTE/Aircraft-Engineering Development			98
VITRO CORPORATION	Maryland	NAVY	RDTE/Aircraft-Engineering Development			154
WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Aircraft-Engineering Development			452
WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Aircraft-Engineering Development			321
R&D TOTAL						3,024,998
AC15 ALLIED SIGNAL AEROSPACE CO	Indiana	USAF	RDTE/Aircraft-Operational Systems Developm			829
APPLICATIONS RESEARCH CORP	Penn	NAVY	RDTE/Aircraft-Operational Systems Developm			42
ASTRONAUTICS CORP AMERICA	Wisconsin	NAVY	RDTE/Aircraft-Operational Systems Developm			195
BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Operational Systems Developm			3,708
BOEING COMPANY THE	Kansas	USAF	RDTE/Aircraft-Operational Systems Developm			20,072
	Penn	ARMY	RDTE/Aircraft-Operational Systems Developm			242
	Washington	NAVY	RDTE/Aircraft-Operational Systems Developm			2,150
CONTRACTOR TOTAL						22,464
CALSPAN CORPORATION	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm			265

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC15 (CONTINUED)					
	ELECTROSPACE SYSTEMS INC	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm	\$ 1,000
		Texas	USAF	RDTE/Aircraft-Operational Systems Developm	864
	CONTRACTOR TOTAL				1,864
FLIGHT REFUELING LTD	UNITED KINGDOM	ARMY	RDTE/Aircraft-Operational Systems Developm		1,466
GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Operational Systems Developm		995
GENERAL ELECTRIC CO	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm		1,136
GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Aircraft-Operational Systems Developm		39
GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Operational Systems Developm		290
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Operational Systems Developm		123
INTERNATIONAL TECHNICAL ASSOCIATES	California	NAVY	RDTE/Aircraft-Operational Systems Developm		53
KARTA TECHNOLOGY INC	Texas	ARMY	RDTE/Aircraft-Operational Systems Developm		216
LOCKHEED CORPORATION	California	NAVY	RDTE/Aircraft-Operational Systems Developm		56-
LOCKHEED MISSILES & SPACE CO	Texas	ARMY	RDTE/Aircraft-Operational Systems Developm		3,710
MATERIALS ANALYSIS INC	Texas	ARMY	RDTE/Aircraft-Operational Systems Developm		99
MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Aircraft-Operational Systems Developm		23,503
MC FADDEN SYSTEMS INC	California	NAVY	RDTE/Aircraft-Operational Systems Developm		32
NORTHROP CORPORATION	California	USAF	RDTE/Aircraft-Operational Systems Developm		1,950
ORLANDO HELICOPTER AIRWAYS	Florida	ARMY	RDTE/Aircraft-Operational Systems Developm		53
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Aircraft-Operational Systems Developm		111-
		USAF	RDTE/Aircraft-Operational Systems Developm		256,833
COUNTRY TOTAL					256,722
STRATEGIC RESEARCH & MGT SVS	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm		179
	Virginia	USAF	RDTE/Aircraft-Operational Systems Developm		98

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	TOTAL
AC15 (CONTINUED)						
	CONTRACTOR TOTAL					277
SYSTEM DEVELOPMENT CORPORATION	Penn	NAVY	RDTE/Aircraft-Operational Systems Developm			166
SYSTEMS & SIMULATIONS INC	Florida	NAVY	RDTE/Aircraft-Operational Systems Developm			6,504
ULTRAMET	California	NAVY	RDTE/Aircraft-Operational Systems Developm			247
UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Aircraft-Operational Systems Developm			1,951
WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Aircraft-Operational Systems Developm			24,100
WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Aircraft-Operational Systems Developm			25
R&D TOTAL						352,968
AC16 A P A OPTICS INC	Minnesota	USAF	RDTE/Aircraft-Management & Support			166
A T S S INC	California	USAF	RDTE/Aircraft-Management & Support			50
AEROSTRUCTURES INC	Virginia	NAVY	RDTE/Aircraft-Management & Support			175
AIS SYS INC	New York	USAF	RDTE/Aircraft-Management & Support			50
ANALYTIC ENGINEERING CO	Nebraska	USAF	RDTE/Aircraft-Management & Support			50
ANALYTICAL METHODS INC	Washington	USAF	RDTE/Aircraft-Management & Support			108
ANAMET LABORATORIES INC	California	USAF	RDTE/Aircraft-Management & Support			49
ARNCO	Tennessee	USAF	RDTE/Aircraft-Management & Support			200
BELL HELICOPTER TEXTRON INC	Texas	NAVY	RDTE/Aircraft-Management & Support			975
BIO TECHNICAL RESOURCES INC	Wisconsin	USAF	RDTE/Aircraft-Management & Support			400
BOEING COMPANY THE	Kansas	NAVY USAF	RDTE/Aircraft-Management & Support RDTE/Aircraft-Management & Support			310 188
	COUNTRY TOTAL					493
BREWER SCIENCE INC	Missouri	USAF	RDTE/Aircraft-Management & Support			173
BROWN JOHN ASSOCIATES INC	New Jersey	USAF	RDTE/Aircraft-Management & Support			105

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC16 (CONTINUED)					
	CALSPAN CORPORATION	New York	USAF	RDTE/Aircraft-Management & Support	514
	COMPUTER ASSOCIATES INTL	Virginia	ARMY	RDTE/Aircraft-Management & Support	97
	CSA ENGINEERING INC	California	USAF	RDTE/Aircraft-Management & Support	150
	DISPLAYTECH INC	Colorado	USAF	RDTE/Aircraft-Management & Support	400
	DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Aircraft-Management & Support	275
	EATON CORPORATION	New York	USAF	RDTE/Aircraft-Management & Support	7,850
	ELECTRONIC WARFARE ASSOCIATES	Ohio	USAF	RDTE/Aircraft-Management & Support	47
	FLOWDRILL CORP	Washington	USAF	RDTE/Aircraft-Management & Support	400
	FOSTER MILLER INC	Mass	USAF	RDTE/Aircraft-Management & Support	77
	GENERAL TECHNOLOGY CORP	Penn	USAF	RDTE/Aircraft-Management & Support	50
	HITEC PRODUCTS INC	Mass	USAF	RDTE/Aircraft-Management & Support	49
	HONEYWELL INC	Minnesota	USAF	RDTE/Aircraft-Management & Support	39
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Aircraft-Management & Support	15,494
	HUNB MICHAEL INC	Michigan	USAF	RDTE/Aircraft-Management & Support	50
	JORDAN & ASSOCIATES	Tennessee	USAF	RDTE/Aircraft-Management & Support	497
	LASER TECHNOLOGIES TNC	Michigan	USAF	RDTE/Aircraft-Management & Support	126
	LOCKHEED CORPORATION	Georgia	USAF	RDTE/Aircraft-Management & Support	200
	MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Aircraft-Management & Support	52
	MATERIALS INNOVATION LABS	California	USAF	RDTE/Aircraft-Management & Support	111
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Aircraft-Management & Support	200
		Missouri	NAVY	RDTE/Aircraft-Management & Support	164
	CONTRACTOR TOTAL				364
	MEASUREMENT TECHNOLOGY NW	Washington	USAF	RDTE/Aircraft-Management & Support	97

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC16 (CONTINUED)						
	METRON CORPORATION	Penn	NAVY	RDTE/Aircraft-Management & Support	150	
	MSNW INC	California	USAF	RDTE/Aircraft-Management & Support	200	
	NETROLOGIC INC	California	NAVY	RDTE/Aircraft-Management & Support	51	
	OPOCA INC	California	USAF	RDTE/Aircraft-Management & Support	142	
	P D A ENGINEERING	California	USAF	RDTE/Aircraft-Management & Support	143	
	PHYSICAL RESEARCH INC	California	USAF	RDTE/Aircraft-Management & Support	176	
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Aircraft-Management & Support	50	
	RAMSEARCH CO	Maryland	USAF	RDTE/Aircraft-Management & Support	350	
	S LEVY INCORPORATED	California	USAF	RDTE/Aircraft-Management & Support	50	
	SPACE POWER INCORPORATED	California	USAF	RDTE/Aircraft-Management & Support	169	
	SPARTA INC	California	USAF	RDTE/Aircraft-Management & Support	58	
	SPIRE CORPORATION	Mass	USAF	RDTE/Aircraft-Management & Support	50	
	SPRINGBORN LABORATORIES INC	Conn	NAVY	RDTE/Aircraft-Management & Support	62	
	STRESS TECH INC	New York	USAF	RDTE/Aircraft-Management & Support	47	
	STRUCTURAL INTEGRITY ASSOC INC	California	USAF	RDTE/Aircraft-Management & Support	48	
	SUPPORT SERVICES INC	Washington	USAF	RDTE/Aircraft-Management & Support	103	
	SVERDRUP TECHNOLOGY INC	Tennessee	NAVY	RDTE/Aircraft-Management & Support	167	
	TERRA TEM INC	Utah	USAF	RDTE/Aircraft-Management & Support	200	
	TRIBOLOGY CONSULTANTS	Penn	USAF	RDTE/Aircraft-Management & Support	139	
	VATELL CORPORATION	Virginia	USAF	RDTE/Aircraft-Management & Support	55	
	ZYW CORP	New Jersey	USAF	RDTE/Aircraft-Management & Support	50	
	R&D TOTAL				32,403	
AC21	A A I CORPORATION	Maryland	ARMY	RDTE/Missile and Space Systems-Basic Resea	3,169	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

DEBT

AC21 (CONTINUED)

MERASIA TECHNOLOGY INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	\$
RDRAK CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea	199
ATLANTIC AEROSPACE ELECTRONICS	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea	129
VCO CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea	9,250
JOEING COMPANY THE	Washington	NAVY	RDTE/Missile and Space Systems-Basic Resea	5,397
CALIFORNIA INST OF TECHNOLOGY	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	80
ARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Missile and Space Systems-Basic Resea	44
CHAMBERLAIN MANUFACTURING CORP	Maine	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,250
NFITEK INC	Texas	NAVY	RDTE/Missile and Space Systems-Basic Resea	248
ERRANTI INSTRUMENTATION LTD	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,000
FORWARD UNLIMITED	California	USAF	RDTE/Missile and Space Systems-Basic Resea	60
ENCORP INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	1,581
GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	732
		USAF	RDTE/Missile and Space Systems-Basic Resea	1,500
		COUNTRY TOTAL		2,232
GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea	525
	Penn	ARMY	RDTE/Missile and Space Systems-Basic Resea	400
		USAF	RDTE/Missile and Space Systems-Basic Resea	149
		COUNTRY TOTAL		549
TEXTRON INC	Vermont	ARMY	RDTE/Missile and Space Systems-Basic Resea	2,750
		USAF	RDTE/Missile and Space Systems-Basic Resea	95
		COUNTRY TOTAL		2,845
		CONTRACTOR TOTAL		3,919

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC21 (CONTINUED)						
	HARRIS CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	\$ 1,000	
	HERCULES INCORPORATED	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	4,300	
	HILTON SYSTEMS INC	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	692	
	HONEYWELL INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Basic Resea	2,027	
	HUGHES AIRCRAFT COMPANY	California	ARMY USAF	RDTE/Missile and Space Systems-Basic Resea	700	
				RDTE/Missile and Space Systems-Basic Resea	1,243	
		COUNTRY TOTAL			1,943	
	INTERSCIENCE INC	New York	ARMY	RDTE/Missile and Space Systems-Basic Resea	206	
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,390	
	KAMAN SCIENCES CORPORATION	Colorado	ARMY USAF	RDTE/Missile and Space Systems-Basic Resea	1,250	
				RDTE/Missile and Space Systems-Basic Resea	237	
		COUNTRY TOTAL			1,487	
	LEADING SYSTEMS INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	2,200	
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Missile and Space Systems-Basic Resea	195	
	LOCKHEED SPACE OPTRONICS COMPANY	Florida	USAF	RDTE/Missile and Space Systems-Basic Resea	1,496	
	LORAL CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Basic Resea	1,100	
	LOUGHBOROUGH UNIV OF TECH	UNITED KING	NAVY	RDTE/Missile and Space Systems-Basic Resea	98	
	LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	820	
	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Missile and Space Systems-Basic Resea	1,498	
		Colorado	ARMY	RDTE/Missile and Space Systems-Basic Resea	61	
		Florida	ARMY NAVY	RDTE/Missile and Space Systems-Basic Resea	6,534	
				RDTE/Missile and Space Systems-Basic Resea	536	
		COUNTRY TOTAL			7,070	
		CONTRACTOR TOTAL			8,629	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	165
AC21 (CONTINUED)						
	MASSACHSETTS INST OF TCHNOLOGY	Mass	NAVY USAF	RDTE/Missile and Space Systems-Basic Resea	\$	84
		COUNTRY TOTAL		RDTE/Missile and Space Systems-Basic Resea		249
MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Basic Resea			1,695
NORTH EAST RESEARCH ASSOC	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea			400
OPTIMETRICS INC	Michigan	USAF	RDTE/Missile and Space Systems-Basic Resea			80
REXHAM CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea			337
ROCKWELL INTERNATIONAL CORP	California	NAVY USAF	RDTE/Missile and Space Systems-Basic Resea			295
		COUNTRY TOTAL		RDTE/Missile and Space Systems-Basic Resea		70,712
SC & A INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea			164
SCIENCE & TECHNOLOGY ASSOC	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea			1,831
SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Missile and Space Systems-Basic Resea			98
SRS TECHNOLOGIES	Alabama	NAVY	RDTE/Missile and Space Systems-Basic Resea			48
STANFORD LE LAND JUNIOR UNIV	California	ARMY	RDTE/Missile and Space Systems-Basic Resea			95
STANFORD TELECOMMUNICATIONS	California	USAF	RDTE/Missile and Space Systems-Basic Resea			150
SYNETICS CORPORATION	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea			2,736
TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea			20,000
TEXAS INSTRUMENTS INCORPORATED	California	NAVY	RDTE/Missile and Space Systems-Basic Resea			217
	Texas	ARMY NAVY	RDTE/Missile and Space Systems-Basic Resea			11,734
		COUNTRY TOTAL		RDTE/Missile and Space Systems-Basic Resea		5,223
CONTRACTOR TOTAL						
THIOKOL CORPORATION	Utah	USAF	RDTE/Missile and Space Systems-Basic Resea			17,174
UBC INC	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea			3,596
		CONTRACTOR TOTAL		RDTE/Missile and Space Systems-Basic Resea		274
						16,957

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC21 (CONTINUED)						
	UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Missile and Space Systems-Basic Resea	\$ 577	
	UNIVERSITY OF DAYTON	California	USAF	RDTE/Missile and Space Systems-Basic Resea	883	
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Missile and Space Systems-Basic Resea	108	
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY NAVY USAF	RDTE/Missile and Space Systems-Basic Resea RDTE/Missile and Space Systems-Basic Resea RDTE/Missile and Space Systems-Basic Resea	4,043 500 100	
	COUNTRY TOTAL				4,643	
	UNIVERSITY OF VIRGINIA	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	209	
	VERITAY TECHNOLOGY INC	New York	USAF	RDTE/Missile and Space Systems-Basic Resea	50	
	VIRGINIA PLTCHNIC INST/ST UNI	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea	318	
	R&D TOTAL				183,360	
AC22 ADVANCED RES & APPLICATIONS						
	AERODYNE RESEARCH INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	746	
	AEROJET	Mass	NAVY	RDTE/Missile and Space Systems-Exploratory	486	
	AEROSPACE DESIGN & DEV	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	1,370	
	AMERICAN SCIENCE & ENGINEERING	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	275	
	ANATECH RESEARCH CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory	486	
	ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Exploratory	80	
	ATLANTIC RESEARCH CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Exploratory	50	
	AVCO CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Exploratory	150	
	BEECH AIRCRAFT CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	429	
	BOEING COMPANY THE	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	579	
	CONTRACTOR TOTAL				1,633	
	AVCO CORPORATION	Washington	USAF	RDTE/Missile and Space Systems-Exploratory	100	
	BEECH AIRCRAFT CORPORATION				1,565	

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 Directorate for Information Operations and Reports

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION - - - - -
AC22 (CONTINUED)				
	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Missile and Space Systems-Exploratory
	CALIFORNIA ST UNIV SAN DIEGO	California	USAF	RDTE/Missile and Space Systems-Exploratory
	COMPUTER SCIENCES CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Exploratory
	DECLOG INC	New York	ARMY	RDTE/Missile and Space Systems-Exploratory
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Missile and Space Systems-Exploratory
	EON INSTRUMENTATION INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory
	FIBER MATERIALS INC	Maine	USAF	RDTE/Missile and Space Systems-Exploratory
	FORD AEROSPACE COMMUNICATIONS CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory
	GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Exploratory
	GENERAL DYNAMICS CORPORATION	California	NAVY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory
	COUNTRY TOTAL			1,072
	GENERAL ELECTRIC CO	Penn	ARMY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory
	COUNTRY TOTAL			2,900 82
	2,982			
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Missile and Space Systems-Exploratory
	GRUMMAN CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Exploratory
	GULF CREW TRANSPORT INC	Florida	NAVY	RDTE/Missile and Space Systems-Exploratory
	HARVARD UNIVERSITY	Mass	USAF	RDTE/Missile and Space Systems-Exploratory
	HERCULES INCORPORATED	Maryland	USAF	RDTE/Missile and Space Systems-Exploratory
	CONTRACTOR TOTAL			1,106
	HERSH ACOUSTICAL ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Exploratory
	3,104			217

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC22 (CONTINUED)					
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Missile and Space Systems-Exploratory	\$ 22,158
	IMPACT TECHNOLOGIES INC	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	53
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Exploratory	200
L	GARDE INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	500
	LITTLE ARTHUR D INC	Mass.	USAF	RDTE/Missile and Space Systems-Exploratory	1,046
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Missile and Space Systems-Exploratory	2,339
	LORAL FAIRCHILD SYSTEMS INC	New York	USAF	RDTE/Missile and Space Systems-Exploratory	285
	LOUISIANA STATE UNIVERSITY	Louisiana	USAF	RDTE/Missile and Space Systems-Exploratory	66
	LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Missile and Space Systems-Exploratory	1,897
			USAF	RDTE/Missile and Space Systems-Exploratory	2,000
	COUNTRY TOTAL				3,897
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	143
		Maryland	USAF	RDTE/Missile and Space Systems-Exploratory	45
	CONTRACTOR TOTAL				188
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory	129
		Missouri	USAF	RDTE/Missile and Space Systems-Exploratory	141
	CONTRACTOR TOTAL				270
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory	354
	NORTH CAROLINA A & T UNIV	N Carolina	USAF	RDTE/Missile and Space Systems-Exploratory	95
	NORTHROP CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory	195
	ORION INT'L TECHNOLOGIES	New Mexico	USAF	RDTE/Missile and Space Systems-Exploratory	65
	PENNSYLVANIA STATE UNIV THE	Penn	USAF	RDTE/Missile and Space Systems-Exploratory	27
	PRINCETON UNIVERSITY	New Jersey	USAF	RDTE/Missile and Space Systems-Exploratory	60

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	DEPT
R&D DESCRIPTION			
AC22 (CONTINUED)			
RAMCOR INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory
RAYTHEON COMPANY	Mass	ARMY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory
	COUNTRY TOTAL		\$ 491
ROCKET RESEARCH CO	Washington	USAF	RDTE/Missile and Space Systems-Exploratory
ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory
	Georgia	ARMY	RDTE/Missile and Space Systems-Exploratory
	CONTRACTOR TOTAL		3,313
SATCON TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Exploratory
SCIENCE APPLICATIONS INT'L CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory
SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Missile and Space Systems-Exploratory
SOFTWARE & ENGINEERING ASSOC	Nevada	USAF	RDTE/Missile and Space Systems-Exploratory
SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Exploratory
SRI INTERNATIONAL	California	USAF	RDTE/Missile and Space Systems-Exploratory
SRS TECHNOLOGIES	California	USAF	RDTE/Missile and Space Systems-Exploratory
STRESAU R LABORATORY INC	Wisconsin	NAVY	RDTE/Missile and Space Systems-Exploratory
TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Missile and Space Systems-Exploratory
TEXTRON INC	New York	USAF	RDTE/Missile and Space Systems-Exploratory
THIOKOL CORPORATION	Alabama	NAVY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory
	COUNTRY TOTAL		800
TRW INC	Utah	USAF	RDTE/Missile and Space Systems-Exploratory
	CONTRACTOR TOTAL		198
	California	USAF	RDTE/Missile and Space Systems-Exploratory
			523
			721
			464

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC22 (CONTINUED)					
ULTRAMET	California	USAF	RDTE/Missile and Space Systems-Exploratory		125
UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory		1,232
	Conn	USAF	RDTE/Missile and Space Systems-Exploratory		123
	Florida	USAF	RDTE/Missile and Space Systems-Exploratory		1,149
CONTRACTOR TOTAL					
UNIVERSITY OF ALABAMA	Alabama	USAF	RDTE/Missile and Space Systems-Exploratory		39
UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Missile and Space Systems-Exploratory		33
UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Missile and Space Systems-Exploratory		507
UNIVERSITY OF CHICAGO THE	Illinois	USAF	RDTE/Missile and Space Systems-Exploratory		42
UNIVERSITY OF HAWAII	Hawaii	USAF	RDTE/Missile and Space Systems-Exploratory		99
UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Missile and Space Systems-Exploratory		28
UNIVERSITY OF OREGON	Oregon	USAF	RDTE/Missile and Space Systems-Exploratory		63
UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Missile and Space Systems-Exploratory		30
UNIVERSITY OF UTAH	Utah	USAF	RDTE/Missile and Space Systems-Exploratory		50
VIRGINIA POLYTECHNIC INST/ST UNI	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory		110
WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Missile and Space Systems-Exploratory		558
WICKMAN SPCCRAFT PROPULSION CO	California	USAF	RDTE/Missile and Space Systems-Exploratory		163
WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Missile and Space Systems-Exploratory		489
R&D TOTAL					
AC23 A P A OPTICS INC	Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De		55
	Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De		50
CONTRACTOR TOTAL					
A T & T TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De		105
					596
70,010					

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AC23 (CONTINUED)					
A T S S INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	\$ 159	
ABTECH CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	56	
ACTA INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Advanced De	310	
ACUREX CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	9,628	
ADROIT SYSTEMS INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	334	
ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,582	
ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	38	
ADVANCED MATERIAL SYS INC	Louisiana	USAF	RDTE/Missile and Space Systems-Advanced De	50	
ADVANCED REFR TECHNOLOGIES	New York	NAVY	RDTE/Missile and Space Systems-Advanced De	146	
ADVANCED RES & APPLICATIONS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	198	
ADVANCED SCIENCES INC	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	749	
	USAF	RDTE/Missile and Space Systems-Advanced De	501		
	COUNTRY TOTAL			1,250	
ADVANCED TECHNOLOGY MTL'S DEL	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	67	
	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	68	
CONTRACTOR TOTAL				135	
AEROJET	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De	1,199	
	RDTE/Missile and Space Systems-Advanced De	2,316			
	COUNTRY TOTAL			3,515	
AEROJET ELECTRO SYSTEMS	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De	10,256-	
	RDTE/Missile and Space Systems-Advanced De	9,991			
AEROJET TECHSYSTEMS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,480	
AIR TURBINE TECHNOLOGY INC	Florida	NAVY	RDTE/Missile and Space Systems-Advanced De	100	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION--	(AMOUNTS IN THOUSANDS)	\$
AC23 (CONTINUED)						
	ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Missile and Space Systems-Advanced De		7,915
		Maryland	NAVY	RDTE/Missile and Space Systems-Advanced De		3,889
	CONTRACTOR TOTAL					11,804
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De		17,074
	ALPHATECH INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		589
	ALUMINUM COMPANY OF AMERICA	Penn	USAF	RDTE/Missile and Space Systems-Advanced De		745
	AMERASIA TECHNOLOGY INC	California	USAF	RDTE/Missile and Space Systems-Advanced De		254
	AMHERST SYSTEMS INC	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		55
	AMORPHOUS METALS TECHN INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		50
	ANALOG DEVICES INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		1,549
	ANALYTIC POWER CORP	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		60
	ANALYTIC SCIENCES CORP THE	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		380
	ANDROMEDA CORP	Mass	USAF	RDTE/Missile and Space Systems-Advanced De		74
	ANRO ENGINEERING CONSULTANTS	California	ARMY	RDTE/Missile and Space Systems-Advanced De		152
	ANTECH SERVICES INC	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		85
	APPLICATION CONFIGURED COMPUTE	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		48
	APPLIED RESEARCH INC	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De		3,691
	APPLIED SCIENCES INC	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De		65
	APTEK INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De		2,594
	ASTRO INNOVATIONS INC	Wisconsin	USAF	RDTE/Missile and Space Systems-Advanced De		163
	ASTRONAUTICS CORP AMERICA	Delaware	ARMY	RDTE/Missile and Space Systems-Advanced De		700
	ASTROSYSTEMS INC	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		160
	ATLANTIC RESEARCH CORPORATION					146

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

AC23 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
CONTRACTOR TOTAL						
ATM COMPUTER GMBH	GERMANY, F	ARMY	RDTE/Missile and Space Systems-Advanced De		\$ 1,075	1,221
AUSTIN RESEARCH ASSOCIATES	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De		3,652	
AUTOMATED SCIENCES GROUP INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		80	
	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		5,470	
					296	
CONTRACTOR TOTAL						
AUTONOMOUS TECHNOLOGIES CORP	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		5,766	61
AVCO CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		532	
		USAF	RDTE/Missile and Space Systems-Advanced De		3,625	
					4,157	
COUNTRY TOTAL						
AVCO RESEARCH LABORATORY INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		6,783	
BABCOCK & WILCOX COMPANY THE	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		356	
BALL CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De		2,429	
BARNES ENGINEERING COMPANY	Conn	USAF	RDTE/Missile and Space Systems-Advanced De		301	
BATTTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Missile and Space Systems-Advanced De		1,878	
BDM INTERNATIONAL INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		25,572	
	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De		355	
CONTRACTOR TOTAL						
BEECH AIRCRAFT CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De		25,927	
BELTRAN ASSOCIATES INC	New York	USAF	RDTE/Missile and Space Systems-Advanced De		1,153	
BOEING COMPANY THE	Kansas	USAF	RDTE/Missile and Space Systems-Advanced De		49	
	Washington	ARMY	RDTE/Missile and Space Systems-Advanced De		2,410-	
					129,392	

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R&D CONTRACTOR NAME COUNTRY DEPT R&D DESCRIPTION

AC23 (CONTINUED)

CONTRACTOR TOTAL	COUNTRY TOTAL	USAF	RDTE/Missile and Space Systems-Advanced De	\$	124,323
BOOZ ALLEN & HAMILTON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		253,715
	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		251,305
CONTRACTOR TOTAL					1,380
BREWER SCIENCE INC	Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De		50
BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		216
BRITISH AEROSPACE NAVAL ELECTR	UNITED KING	ARMY	RDTE/Missile and Space Systems-Advanced De		49
BRUNSWICK CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De		634
BUSINESS TECHNOLOGICAL SYSTEMS	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		401
CALSPAN CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Advanced De		346
CAS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		188
CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De		32
CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De		86
COLEMAN RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		7,073
COLORADO SUPERCONDUCTOR INC	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De		49
COLSA INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		8,525
	California	ARMY	RDTE/Missile and Space Systems-Advanced De		11,254
CONTRACTOR TOTAL					19,779
CONCEPT ANALYSIS CORPORATION	Michigan	USAF	RDTE/Missile and Space Systems-Advanced De		55
CORIUM INDUSTRIES	Illinois	ARMY	RDTE/Missile and Space Systems-Advanced De		50
CORY LABS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		51

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(AMOUNTS IN THOUSANDS)

AC23 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
	COSYDE GIE	FRANCE	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 1,302
	CREARE RESEARCH & DEVELOPMENT	N H.	ARMY USAF	RDTE/Missile and Space Systems-Advanced De	159
				RDTE/Missile and Space Systems-Advanced De	120
				COUNTRY TOTAL	279
	CSA ENGINEERING INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	47
	CTK ENTERPRISES	California	USAF	RDTE/Missile and Space Systems-Advanced De	50
	DEACON RESEARCH	California	ARMY	RDTE/Missile and Space Systems-Advanced De	53
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	165
	DELTA RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	849
	DRAPER CHARLES STARK LAB INC	Mass	ARMY USAF	RDTE/Missile and Space Systems-Advanced De	9,970
				RDTE/Missile and Space Systems-Advanced De	33,977
				COUNTRY TOTAL	43,947
	DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	300
	DUNLOP AVIATION INC	UNITED KIN	USAF	RDTE/Missile and Space Systems-Advanced De	180
	DYNETICS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	4,439
	E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	500
	E I C LABORATORY INC	Mass	ARMY USAF	RDTE/Missile and Space Systems-Advanced De	106
				RDTE/Missile and Space Systems-Advanced De	29
				COUNTRY TOTAL	135
	E TEK DYNAMICS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	75
		Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	125
	CONTRACTOR TOTAL				200
	EAGLE PICHET INDUSTRIES INC	Missouri	USAF	RDTE/Missile and Space Systems-Advanced De	596
	EHRENPREIS DAVID B	New Jersey	NAVY	RDTE/Missile and Space Systems-Advanced De	256

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
(AMOUNTS IN THOUSANDS)					

AC23 (CONTINUED)

ELECTRIC PROPULSION LABORATORY	California	USAF	RDTE/Missile and Space Systems-Advanced De	\$	97
ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De		211
ELECTROMAGNETIC LAUNCH RES	Mass	ARMY USAF	RDTE/Missile and Space Systems-Advanced De		861
			RDTE/Missile and Space Systems-Advanced De		350
			COUNTRY TOTAL		1,211
ELECTRONIC DECISIONS INC	Illinois	ARMY	RDTE/Missile and Space Systems-Advanced De		259
EMEC CONSULTANTS	Penn	USAF	RDTE/Missile and Space Systems-Advanced De		50
ENERGY COMPRESSION RES CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De		297
ENGINEERING & ECONOMICS RES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		350
EPION CORP	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		51
EXCEL TECHNOLOGY INC	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		47
FAIL-SAFE TECHNOLOGY CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De		300
FIBER IMAGING TECH INC	Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De		54
FIBER MATERIALS INC	Maine	ARMY	RDTE/Missile and Space Systems-Advanced De		560
FIBERTEK INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		61
FORD AEROSPACE COMMUNICATIONS CORP	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De		576
			RDTE/Missile and Space Systems-Advanced De		68
			COUNTRY TOTAL		644
	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De		500
			CONTRACTOR TOTAL		1,144
FOSTER MILLER INC	Mass	ARMY USAF	RDTE/Missile and Space Systems-Advanced De		63
			RDTE/Missile and Space Systems-Advanced De		302
			COUNTRY TOTAL		365
FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Missile and Space Systems-Advanced De		793

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION
AC23 (CONTINUED)				

G T DEVICES INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 1,000
G T E LABORATORIES INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	443
GEMINI COMPUTERS INCORPORATED	California	ARMY	RDTE/Missile and Space Systems-Advanced De	80
GEN PURPOSE MACH LAB	California	ARMY	RDTE/Missile and Space Systems-Advanced De	49
GENCORP INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	USAF	RDTE/Missile and Space Systems-Advanced De		15,293
	COUNTRY TOTAL			
GENERAL ATOMICS	California	USAF	RDTE/Missile and Space Systems-Advanced De	655
GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	418
	USAF	RDTE/Missile and Space Systems-Advanced De		681
	COUNTRY TOTAL			
Texas	USAF	RDTE/Missile and Space Systems-Advanced De		1,099
	CONTRACTOR TOTAL			
GENERAL ELECTRIC CO	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	644
	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	1,743
	CONTRACTOR TOTAL			
GENERAL RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	2,702
	California	USAF	RDTE/Missile and Space Systems-Advanced De	7,019
	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	9,721
				11,507
	CONTRACTOR TOTAL			
GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	373
	USAF	RDTE/Missile and Space Systems-Advanced De		1,215
	COUNTRY TOTAL			
GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	13,095
				6,271
				130
	CONTRACTOR TOTAL			
	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	6,401
				12,521

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AC23 (CONTINUED)					
	H M TECHNOLOGIES INC	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	
	HARRIS CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	
	HONEYWELL INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	
		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	
		Minnesota	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	
		COUNTRY TOTAL		3,287	
				11,848	
	HUGHES AIRCRAFT COMPANY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	
		Arizona	USAF	RDTE/Missile and Space Systems-Advanced De	
		California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	
		COUNTRY TOTAL		19,112	
	CONTRACTOR TOTAL				
	I A P RESEARCH INC	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Missile and Space Systems-Advanced De	
	IMATRON INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	
	IMPACT TECHNOLOGIES INC	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	
	INTEGRATED ACCELERATOR TECH	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	
	INTERMAGNETICS GENERAL CORP	Conn	USAF	RDTE/Missile and Space Systems-Advanced De	
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	
		Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	
		CONTRACTOR TOTAL		2,456	
				20,980	
				879	
				425	
				56	
				53	
				45	
				70	
				44	
				784	
				1,672	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC23 (CONTINUED)						
	INTERNATIONAL FUEL CELLS CORP	Conn	USAF	RDTE/Missile and Space Systems-Advanced De		
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 1,741	
	INTERSIL INC	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	2,996	
	IONIC ATLANTA INCORPORATED	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	300	
	IOWA LASER TECHNOLOGY INC	Iowa	ARMY	RDTE/Missile and Space Systems-Advanced De	49	
	IRVINE SENSORS CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	300	
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	363	
	CONTRACTOR TOTAL		ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	663	
			COUNTRY TOTAL		200	
	JAYCOR	California	ARMY	RDTE/Missile and Space Systems-Advanced De	49	
			COUNTRY TOTAL		249	
	JUDITH DAYHOFF & ASSOC INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50	
	KAISER AEROSPACE & ELEC CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	220	
	KAMAN SCIENCES CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	391	
		Colorado	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	7,758 663	
	CONTRACTOR TOTAL		COUNTRY TOTAL		8,421	
	L GARDE INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	8,812	
	LASER SCIENCE INC	Mass	NAVY	RDTE/Missile and Space Systems-Advanced De	2,275	
	LINEAR MONOLITHICS INCORPORAT	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,365	
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	51	
	LITTON INDUSTRIES INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	6,705	
	LITTON SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50	
		Penn	USAF	RDTE/Missile and Space Systems-Advanced De	543	
	CONTRACTOR TOTAL		COUNTRY TOTAL		240	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT ----- R&D DESCRIPTION

AC23 (CONTINUED)

CONTRACTOR TOTAL				\$	783
LOCKHEED MISSILES & SPACE CO	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		960
	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De		179,692
		RDTE/Missile and Space Systems-Advanced De			14,989
COUNTRY TOTAL					184,681
CONTRACTOR TOTAL					185,641
LORAL FAIRCHILD SYSTEMS INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De		375
LTV AEROSPACE & DEF CO	Arkansas	ARMY	RDTE/Missile and Space Systems-Advanced De		35-
	Texas	ARMY USAF	RDTE/Missile and Space Systems-Advanced De		56
		RDTE/Missile and Space Systems-Advanced De			161
COUNTRY TOTAL					56,549
CONTRACTOR TOTAL					56,514
MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De		50
MARTIN MARIETTA CORPORATION	Colorado	ARMY USAF	RDTE/Missile and Space Systems-Advanced De		1,409
		RDTE/Missile and Space Systems-Advanced De			9,625
COUNTRY TOTAL					11,034
CONTRACTOR TOTAL					126
MATERIALS TECHNOLOGIES CORP	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De		11,160
MAXWELL LABORATORIES INC	California	USAF	RDTE/Missile and Space Systems-Advanced De		110
MAYO FOUNDATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Advanced De		473
MC DONNELL DOUGLAS CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		1,154
	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De		8,833
		RDTE/Missile and Space Systems-Advanced De			101,691
COUNTRY TOTAL					8,466
					110,157

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

AC23 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
CONTRACTOR TOTAL						
	Missouri	ARMY USAF	RDTE/Missile and Space Systems-Advanced De		\$ 951	951
			RDTE/Missile and Space Systems-Advanced De			2,086
		COUNTRY TOTAL				3,037
						122,027
CONTRACTOR TOTAL						
MESILLA VLY HGH TECH	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		\$ 50	50
MICROCOM CORPORATION	Penn	NAVY	RDTE/Missile and Space Systems-Advanced De			477
MICROCOSM	California	USAF	RDTE/Missile and Space Systems-Advanced De			702
MICROWAVE TECHNOLOGY INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De			42
MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De			263
	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De			81
	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De			640
CONTRACTOR TOTAL						
MISSISSIPPI STATE UNIVERSITY	Miss	NAVY	RDTE/Missile and Space Systems-Advanced De		\$ 984	984
MOLTECH CORP	New York	ARMY	RDTE/Missile and Space Systems-Advanced De			100
MOTOROLA INC	Arizona	NAVY	RDTE/Missile and Space Systems-Advanced De			51
	Maryland	NAVY	RDTE/Missile and Space Systems-Advanced De			121,564
CONTRACTOR TOTAL						
NATIONAL STL SHPBUILDING CMPANY	California	NAVY	RDTE/Missile and Space Systems-Advanced De		\$ 468	468
NATIVE AMERICAN SERVICE ASSN	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De			122,032
NETROLOGIC INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De			231
NICHOLS RESEARCH CORPORATION	Alabama	ARMY USAF	RDTE/Missile and Space Systems-Advanced De			319
			RDTE/Missile and Space Systems-Advanced De			49
	COUNTRY TOTAL					22,243
						842
	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De			23,085
CONTRACTOR TOTAL						
						532
						23,617

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					
	NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Missile and Space Systems-Advanced De	\$ 300
	NUCLEAR METALS INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	247
	OPTRON SYSTEMS INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	250
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	2,230
	ORTEL CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	P D A ENGINEERING	California	ARMY	RDTE/Missile and Space Systems-Advanced De	54
		USAFA	RDTE/Missile and Space Systems-Advanced De	154	
		COUNTRY TOTAL			208
	PATEL ENTERPRISES INCORPORATED	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,647
	PERKIN ELMER CORPORATION	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	518
		USAFA	RDTE/Missile and Space Systems-Advanced De	343	
		COUNTRY TOTAL			861
	PHASE IV SYSTEMS INCORPORATED	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	446
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	254
	PHYSICON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	POLYTECHNIC UNIV OF NEW YORK	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	200
	QUANSCAN INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	52
	QUANTUM TECHNOLOGY INC	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	R & D ASSOCIATES	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	340
		USAFA	RDTE/Missile and Space Systems-Advanced De	150	
		COUNTRY TOTAL			490
	RADIANT CORPORATION	Texas	USAF	RDTE/Missile and Space Systems-Advanced De	100
	RADIATION SCIENCE INC	Maine	ARMY	RDTE/Missile and Space Systems-Advanced De	55
		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	39
		CONTRACTOR TOTAL			94

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC23 (CONTINUED)						
	RAYMOND ENGINEERING INC	Conn		NAVY RDTE/Missile and Space Systems-Advanced De	\$ 789	
	RAYTHEON COMPANY	California	USAF	RDTE/Missile and Space Systems-Advanced De		589-
		Mass	ARMY NAVY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	70 240 738	
				COUNTRY TOTAL	71,880	
					71,291	
	RDR INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	50	
	RESEARCH TRIANGLE INSTITUTE	N Carolina	USAF	RDTE/Missile and Space Systems-Advanced De		132
	REXHAM CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		400
	ROCKWELL INTERNATIONAL CORP	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	16 220 57 901	
				COUNTRY TOTAL	74,121	
					720	
					74,841	
	RYAN ASSOCIATES	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	237	
	S SYSTEMS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De		5,378
	SACH SINHA & ASSOCIATES	California	NAVY	RDTE/Missile and Space Systems-Advanced De		250
	SANDIA RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De		58
	SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		261
	SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De		53
	SCI TECHNOLOGY INC	Alabama	NAVY	RDTE/Missile and Space Systems-Advanced De		101
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		1,259
		California	ARMY	RDTE/Missile and Space Systems-Advanced De		679
		Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		200

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-
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AC23 (CONTINUED)

Minnesota	NAVY	RDTE/Missile and Space Systems-Advanced De	\$ 715
New Mexico	ARMY USAF	RDTE/Missile and Space Systems-Advanced De	125
		RDTE/Missile and Space Systems-Advanced De	98
COUNTRY TOTAL			223
CONTRACTOR TOTAL			291
SCIENCE RESEARCH LABORATORY	ARMY	RDTE/Missile and Space Systems-Advanced De	728
SCIENTIFIC RESEARCH ASSUC INC	ARMY	RDTE/Missile and Space Systems-Advanced De	63
SDRC SOFTWARE PDT'S MKTG DIV	NAVY	RDTE/Missile and Space Systems-Advanced De	142
SIERRA MONOLITHICS INC	ARMY	RDTE/Missile and Space Systems-Advanced De	164
SOCIETE EUROPEENNE DE PROP (SEP	ARMY	RDTE/Missile and Space Systems-Advanced De	30
SOFTWARE & ENGINEERING ASSOC	USAF	RDTE/Missile and Space Systems-Advanced De	525
SOUTHERN RESEARCH INSTITUTE	USAF	RDTE/Missile and Space Systems-Advanced De	123
SPACE DATA CORPORATION	ARMY USAF	RDTE/Missile and Space Systems-Advanced De	15,325
COUNTRY TOTAL			16,460
SPACE TECH CORP	ARMY	RDTE/Missile and Space Systems-Advanced De	173
SPARTA INC	ARMY	RDTE/Missile and Space Systems-Advanced De	5,025
		RDTE/Missile and Space Systems-Advanced De	2,860
COUNTRY TOTAL			9,319
CONTRACTOR TOTAL			14,344
SPECTRAL SCIENCES INC	ARMY	RDTE/Missile and Space Systems-Advanced De	84
SPECTRAMED INC	California USAF	RDTE/Missile and Space Systems-Advanced De	85

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT R&D DESCRIPTION

AC23 (CONTINUED)

CONTRACTOR		MASS	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	\$	765
CONTRACTOR TOTAL		COUNTRY TOTAL				670
SRS TECHNOLOGIES		Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		1,435
		California	USAF	RDTE/Missile and Space Systems-Advanced De		3,114
CONTRACTOR TOTAL						160
SUMMA TECHNOLOGY INC		Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		1,104
SUNOL SCIENCES CORP		California	USAF	RDTE/Missile and Space Systems-Advanced De		48
SUPERCON INCORPORATED		Mass	USAF	RDTE/Missile and Space Systems-Advanced De		100
SUPERCONDUCTOR TECHNOLOGIES		California	ARMY	RDTE/Missile and Space Systems-Advanced De		118
SYSTEM DEVELOPMENT CORPORATION		Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		905
SYSTEMS PLANNING CORP		Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		265
SYSTEMS RESEARCH LABORATORIES		Ohio	USAF	RDTE/Missile and Space Systems-Advanced De		90
SYSTOLIC SYSTEMS INC		California	ARMY	RDTE/Missile and Space Systems-Advanced De		156
TACAN CORPORATION		California	ARMY	RDTE/Missile and Space Systems-Advanced De		50
TADIRAN ELECTRONIC INDUSTRIES		ISRAEL	ARMY	RDTE/Missile and Space Systems-Advanced De		5,493
TALANDIC RESEARCH CORPORATION		California	ARMY	RDTE/Missile and Space Systems-Advanced De		57
TECHNICAL & MGT SVCS CORP		Ohio	USAF	RDTE/Missile and Space Systems-Advanced De		45-
TECHNOLOGY DEVELOPMENT CORP		Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		1,912
TELEDYNE INDUSTRIES INC		Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		62,829
TEXAS A & M UNIV SYS THE		Texas	USAF	RDTE/Missile and Space Systems-Advanced De		143
TEXAS INSTRUMENTS INCORPORATED		Texas	ARMY	RDTE/Missile and Space Systems-Advanced De		5,969
THERMO ELECTRON TECH CORP		California	ARMY	RDTE/Missile and Space Systems-Advanced De		316

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

AC23 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
<hr/>						
THIOKOL CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 370		
	Maryland	ARMY USAF	RDTE/Missile and Space Systems-Advanced De	74		
		RDTE/Missile and Space Systems-Advanced De		4,073		
					4,147	
	COUNTRY TOTAL					102
	Utah	USAF	RDTE/Missile and Space Systems-Advanced De			
<hr/>						
- ACOR APPLIED SCIENCES INC	Texas	USAF	RDTE/Missile and Space Systems-Advanced De	4,619		
TRW INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	195		
	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De	11,078		
		RDTE/Missile and Space Systems-Advanced De		19,151		
				9,378		
	COUNTRY TOTAL				28,529	
<hr/>						
U S AUTOMATION COMPANY	Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De	39,607		
UNISYS CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	49		
	Minnesota	USAF	RDTE/Missile and Space Systems-Advanced De	7,159		
		RDTE/Missile and Space Systems-Advanced De		847		
	COUNTRY TOTAL				8,006	
UNITED INTERNATIONAL ENRG	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	500		
	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	789		
		RDTE/Missile and Space Systems-Advanced De		1,289		
	COUNTRY TOTAL					
UNITED SPACE BOOSTERS INC	Alabama	NAVY	RDTE/Missile and Space Systems-Advanced De			
UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	40		
	Conn	USAF	RDTE/Missile and Space Systems-Advanced De	281		
	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	2,541		
		RDTE/Missile and Space Systems-Advanced De		6,243		
	COUNTRY TOTAL				9,065	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC23 (CONTINUED)						
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De		280
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		3,011
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De		556
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		41
	UNIVERSITY OF IOWA THE	Iowa	NAVY	RDTE/Missile and Space Systems-Advanced De		91
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		350
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De		150
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Missile and Space Systems-Advanced De		300
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Missile and Space Systems-Advanced De		100
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	1,195 400	
	COUNTRY TOTAL				1,595	
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		396
	VANDERBILT UNIVERSITY THE	Tennessee	ARMY	RDTE/Missile and Space Systems-Advanced De		86
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		680
	VERITAY TECHNOLOGY INC	New York	USAF	RDTE/Missile and Space Systems-Advanced De		155
	WEST VIRGINIA UNIVERSITY	W Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		317
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		1,200
	XONTECH INC	Penn	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	234 2,737	
	COUNTRY TOTAL				2,971	
	CONTRACTOR TOTAL				4,171	
	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		2,064 2,801	
	COUNTRY TOTAL				4,865	

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	DEPT
AC23 (CONTINUED)	ZEXTRON INC	California	ARMY RDTE/Missile and Space Systems-Advanced De
	ZTEK INC	Mass	USAF RDTE/Missile and Space Systems-Advanced De
R&D TOTAL			\$ 50
AC24 ACUREX CORPORATION		California	USAF RDTE/Missile and Space Systems-Engr Develo
AMPLEX CORPORATION		Maryland	NAVY RDTE/Missile and Space Systems-Engr Develo
ANALYTIC SCIENCES CORP THE		Mass	NAVY RDTE/Missile and Space Systems-Engr Develo
ATLANTIC RESEARCH CORPORATION		Maryland	NAVY RDTE/Missile and Space Systems-Engr Develo
AVCO CORPORATION		Mass	USAF RDTE/Missile and Space Systems-Engr Develo
BATTELLE MEMORIAL INSTITUTE		Ohio	NAVY RDTE/Missile and Space Systems-Engr Develo
BELL HELICOPTER INTERNATIONAL		Texas	NAVY RDTE/Missile and Space Systems-Engr Develo
BOEING COMPANY THE		Alabama	ARMY RDTE/Missile and Space Systems-Engr Develo
		Kansas	USAF RDTE/Missile and Space Systems-Engr Develo
		Washington	NAVY RDTE/Missile and Space Systems-Engr Develo
		USAF	RDTE/Missile and Space Systems-Engr Develo
COUNTRY TOTAL			108,278
CONTRACTOR TOTAL			108,828
BRIDGE COMMUNICATIONS INC		Virginia	NAVY RDTE/Missile and Space Systems-Engr Develo
CROSS SYSTEMS INC		Georgia	USAF RDTE/Missile and Space Systems-Engr Develo
CTA INCORPORATED		California	USAF RDTE/Missile and Space Systems-Engr Develo
DRAPER CHARLES STARK LAB INC		Mass	USAF RDTE/Missile and Space Systems-Engr Develo
DYNAMICS RESEARCH CORPORATION		Mass	USAF RDTE/Missile and Space Systems-Engr Develo
E E R SYSTEMS CORP		Alabama	ARMY RDTE/Missile and Space Systems-Engr Develo
E G & G WASHINGTON ALALYTL SVC		Maryland	NAVY RDTE/Missile and Space Systems-Engr Develo
EARTH TECHNOLOGY CORPORATION		California	USAF RDTE/Missile and Space Systems-Engr Develo
			11,546
			1,479,333
			490
			50
			1,512
			1,049
			4,821
			161
			716-
			80,306
			6,019
			550
			108,278
			108,828
			195,153
			154
			3,407
			3,040
			1,713
			1,174
			854
			792
			11,546

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC24 (CONTINUED)					
	EXPERT EASE SYSTEMS INC	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	\$ 50
	FAIRCHILD INDUSTRIES INC	New York	USAF	RDTE/Missile and Space Systems-Engr Develo	238-
	FMC CORPORATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Engr Develo	3,960
	FORD AEROSPACE COMMCTIONS CORP	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	52-
		Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	12,882
	CONTRACTOR TOTAL				12,830
	GENCOP INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	5,261
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	28,149
		USA	USAF	RDTE/Missile and Space Systems-Engr Develo	978
	COUNTRY TOTAL				29,127
		Conn	NAVY	RDTE/Missile and Space Systems-Engr Develo	265
	CONTRACTOR TOTAL				29,392
	GENERAL ELECTRIC CO	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	943
		Penn	USAF	RDTE/Missile and Space Systems-Engr Develo	20,258
	CONTRACTOR TOTAL				21,201
	GODDYNAMICS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	1,709
	GTE GOVERNMENT SYSTEMS CORP	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	123
	HERCULES INCORPORATED	Utah	NAVY	RDTE/Missile and Space Systems-Engr Develo	205
		USA	USAF	RDTE/Missile and Space Systems-Engr Develo	16,737
	COUNTRY TOTAL				16,942
	HONEYWELL INC	Florida	USAF	RDTE/Missile and Space Systems-Engr Develo	1,694
		Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	39,854
		New Mexico	USAF	RDTE/Missile and Space Systems-Engr Develo	18,191
	CONTRACTOR TOTAL				59,739

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC24 (CONTINUED)						
	HUGHES AIRCRAFT COMPANY	Arizona	USAF	RDTE/Missile and Space Systems-Engr Develo	\$ 5,291	
		California	NAVY USAF	RDTE/Missile and Space Systems-Engr Develo RDTE/Missile and Space Systems-Engr Develo	109,238 372	
		COUNTRY TOTAL			109,610	
	CONTRACTOR TOTAL					
	INSTRUMENTS INC	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	114,901	
	INTELLISYS INC	New York	USAF	RDTE/Missile and Space Systems-Engr Develo	34	
	INTERSTATE ELECTRONICS CORP	California	NAVY USAF	RDTE/Missile and Space Systems-Engr Develo RDTE/Missile and Space Systems-Engr Develo	41 597	
		COUNTRY TOTAL			13,027	
	KAMAN SCIENCES CORPORATION					
		Colorado	NAVY	RDTE/Missile and Space Systems-Engr Develo	13,624	
		New Mexico	USAF	RDTE/Missile and Space Systems-Engr Develo	480	
					498	
	CONTRACTOR TOTAL					
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Missile and Space Systems-Engr Develo	978	
	LITTON SYSTEMS INC	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	323	
		Utah	USAF	RDTE/Missile and Space Systems-Engr Develo	11,292	
					4,725	
	LOCKHEED MISSILES & SPACE CO					
		California	NAVY USAF	RDTE/Missile and Space Systems-Engr Develo RDTE/Missile and Space Systems-Engr Develo	16,017	
		COUNTRY TOTAL			4,925	
	LOGICON INC					
	LTV AEROSPACE & DEF CO	California	USAF	RDTE/Missile and Space Systems-Engr Develo	5,911	
	MAGNAVOX GOVT & INDSTRL ELCTR	Texas	ARMY	RDTE/Missile and Space Systems-Engr Develo	8,080	
	MARTIN MARIETTA CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	28,179	
		Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	225	
		Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo	58,759	
					120	

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT R&D DESCRIPTION
AC24 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
CONTRACTOR TOTAL					
	MARTIN MARIETTA DIEHL THORN JV	Florida	ARMY	RDTE/Missile and Space Systems-Engr Develo	\$ 58,879
	MATHEMATICAL ANALYSIS RESEARCH	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	31,530
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	215
		Missouri	NAVY	RDTE/Missile and Space Systems-Engr Develo	58
	CONTRACTOR TOTAL				7,217
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	7,275
	NORTHROP CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	1,269
	OPTRA INC	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	2,484
	PALISADES GEOPHYSICAL INST	New York	USAF	RDTE/Missile and Space Systems-Engr Develo	48
	PROTECTIVE GROUP INC	N.H.	NAVY	RDTE/Missile and Space Systems-Engr Develo	913
	RAYTHEON COMPANY	California	USAF	RDTE/Missile and Space Systems-Engr Develo	68
		Mass	ARMY	RDTE/Missile and Space Systems-Engr Develo	269
			NAVY	RDTE/Missile and Space Systems-Engr Develo	23,363
			USAF	RDTE/Missile and Space Systems-Engr Develo	295,147
	COUNTRY TOTAL				231
	Tennessee	NAVY	RDTE/Missile and Space Systems-Engr Develo	318,741	
	CONTRACTOR TOTAL				1,902
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Missile and Space Systems-Engr Develo	320,912
		Georgia	ARMY	RDTE/Missile and Space Systems-Engr Develo	37,373
	CONTRACTOR TOTAL				13,958
	ROYAL NORWEGIAN NAVAL MATERIAL	NORWAY	NAVY	RDTE/Missile and Space Systems-Engr Develo	51,331
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	11,371
		USAF	RDTE/Missile and Space Systems-Engr Develo	3,036	
					3,941

DEPARTMENT OF DEFENSE
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FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
COUNTRY TOTAL					
SIPPICAN INC	Mass	NAVY	RDTE/Missile and Space	Systems-Engr Develo	\$ 3,977
SYNETICS CORPORATION	Mass	NAVY	RDTE/Missile and Space	Systems-Engr Develo	3,398
SYSCON CORPORATION	D.C.	NAVY	RDTE/Missile and Space	Systems-Engr Develo	60
SYSTEMS & LOGISTICS CORP	California	USAF	RDTE/Missile and Space	Systems-Engr Develo	100
SYSTEMS RES APPLICATIONS CORP	Virginia	USAF	RDTE/Missile and Space	Systems-Engr Develo	1,556
TECOLOTE RESEARCH INC	California	USAF	RDTE/Missile and Space	Systems-Engr Develo	1,612
TEXAS INSTRUMENT M MARIETTA JV	Texas	ARMY	RDTE/Missile and Space	Systems-Engr Develo	622
TEXAS INSTRUMENTS INCORPORATED	Colorado	USAF	RDTE/Missile and Space	Systems-Engr Develo	82,350
Texas	Navy	RDTE/Missile and Space	Systems-Engr Develo	285	
CONTRACTOR TOTAL	Utah	NAVY	RDTE/Missile and Space	Systems-Engr Develo	2,119
THIOKOL CORPORATION	USAF	RDTE/Missile and Space	Systems-Engr Develo	2,404	
COUNTRY TOTAL					
TITAN SYSTEMS INC	California	USAF	RDTE/Missile and Space	Systems-Engr Develo	7,731
TRW INC	California	USAF	RDTE/Missile and Space	Systems-Engr Develo	421
UNISYS CORPORATION	New York	NAVY	RDTE/Missile and Space	Systems-Engr Develo	209,151
Virginia	NAVY	RDTE/Missile and Space	Systems-Engr Develo	262,354	
CONTRACTOR TOTAL					1,425
UNITED INTERNATIONAL ENGRG	New Mexico	ARMY	RDTE/Missile and Space	Systems-Engr Develo	263,779
UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Missile and Space	Systems-Engr Develo	470
VEDA INCORPORATED	Florida	USAF	RDTE/Missile and Space	Systems-Engr Develo	1,004-
Mass	NAVY	RDTE/Missile and Space	Systems-Engr Develo	91	
					50

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

AC24 (CONTINUED)

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$	
CONTRACTOR TOTAL						
	VITRO CORPORATION	Maryland	USAF	RDTE/Missile and Space Systems-Engr Develo	\$ 141	
	WALTER DORWIN TEAGUE INC	New York	NAVY	RDTE/Missile and Space Systems-Engr Develo	3,342	
	WESTINGHOUSE ELECTRIC CORP	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	373	
		USAF	RDTE/Missile and Space Systems-Engr Develo	31,544		
				RDTE/Missile and Space Systems-Engr Develo	54,028	
				COUNTRY TOTAL	85,572	
	WILLIAMS INTERNATIONAL CORP	Michigan	NAVY	RDTE/Missile and Space Systems-Engr Develo	77-	
	ZEGER ABRAMS INCORPORATED	Penn	NAVY	RDTE/Missile and Space Systems-Engr Develo	50	
R&D TOTAL						
	AC25 ADVANCED SCIENCES INC	New Mexico	USAF	RDTE/Missile and Space Systems-Op Systems	1,716,855	
	AEROJET	California	USAF	RDTE/Missile and Space Systems-Op Systems	59	
	AEROMET INC	Oklahoma	ARMY	RDTE/Missile and Space Systems-Op Systems	252	
		Marshall I	ARMY	RDTE/Missile and Space Systems-Op Systems	6,736	
				COUNTRY TOTAL	270-	
	AMSTAR TECHNICAL PRODUCTS CO	Virginia	USAF	RDTE/Missile and Space Systems-Op Systems	6,466	
	ANALYTIC SCIENCES CORP THE	Mass	NAVY	RDTE/Missile and Space Systems-Op Systems	26	
	ATLANTIC RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Missile and Space Systems-Op Systems	6,518	
		Virginia	USAF	RDTE/Missile and Space Systems-Op Systems	3,235	
CONTRACTOR TOTAL						
	BOEING COMPANY THE	Kansas	USAF	RDTE/Missile and Space Systems-Op Systems	3,493	
	CONTEL FEDERAL SYSTEMS INC	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	3,888	
		Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	9,476	
				CONTRACTOR TOTAL	11,659	
					21,135	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	DEPT
AC25 (CONTINUED)			-R&D DESCRIPTION-
	DATA GENERAL CORPORATION	Mass	USAF RDTE/Missile and Space Systems-Op Systems
	ELECTRONIC WARFARE ASSOCIATES	Alabama	ARMY RDTE/Missile and Space Systems-Op Systems
		Virginia	ARMY RDTE/Missile and Space Systems-Op Systems
	CONTRACTOR TOTAL		913
	FMC CORPORATION	Minnesota	NAVY RDTE/Missile and Space Systems-Op Systems
	GENERAL DYNAMICS CORPORATION	California	NAVY RDTE/Missile and Space Systems-Op Systems
	GENERAL ELECTRIC CO	Mass	NAVY RDTE/Missile and Space Systems-Op Systems
		New Jersey	USAF RDTE/Missile and Space Systems-Op Systems
		Penn	USAF RDTE/Missile and Space Systems-Op Systems
	CONTRACTOR TOTAL		251
	GRASEBY IONICS LTD	UNITED KINGDOM	NAVY RDTE/Missile and Space Systems-Op Systems
	HARRIS CORPORATION	Florida	USAF RDTE/Missile and Space Systems-Op Systems
		Nebraska	USAF RDTE/Missile and Space Systems-Op Systems
	CONTRACTOR TOTAL		100
	HERCULES INCORPORATED	Utah	USAF RDTE/Missile and Space Systems-Op Systems
	HONEYWELL INC	Arizona	USAF RDTE/Missile and Space Systems-Op Systems
	HUGHES AIRCRAFT COMPANY	California	NAVY RDTE/Missile and Space Systems-Op Systems
		USAF RDTE/Missile and Space Systems-Op Systems	
	CONTRACTOR TOTAL		13,839
	INTEGRAL SYSTEMS INC	Maryland	USAF RDTE/Missile and Space Systems-Op Systems
	INTERSTATE ELECTRONICS CORP	California	NAVY RDTE/Missile and Space Systems-Op Systems
	J W P INC	California	USAF RDTE/Missile and Space Systems-Op Systems
		Colorado	USAF RDTE/Missile and Space Systems-Op Systems
	CONTRACTOR TOTAL		947
			58,251
		Maryland	USAF RDTE/Missile and Space Systems-Op Systems
		California	NAVY RDTE/Missile and Space Systems-Op Systems
		California	USAF RDTE/Missile and Space Systems-Op Systems
		Colorado	USAF RDTE/Missile and Space Systems-Op Systems
	CONTRACTOR TOTAL		2,066

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	190
AC25 (CONTINUED)						
	KAMAN SCIENCES CORPORATION	Colorado	ARMY NAVY	RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems		4,785
		COUNTRY TOTAL				4,975
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems		1,522,166
		Maryland	NAVY	RDTE/Missile and Space Systems-Op Systems		26,389
	GERMANY, F	ARMY	RDTE/Missile and Space Systems-Op Systems			31
	CONTRACTOR TOTAL					1,548,586
	MC CREAMY RESEARCH INC	Maryland	NAVY	RDTE/Missile and Space Systems-Op Systems		25
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems		872
	MICROCOM	California	USAF	RDTE/Missile and Space Systems-Op Systems		150-
	MICRODYNE CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Op Systems		63
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems		50
	O A O CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems		34
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Missile and Space Systems-Op Systems		32
	RAYTHEON COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Op Systems		4,847
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Missile and Space Systems-Op Systems		230
		Colorado	USAF	RDTE/Missile and Space Systems-Op Systems		175
	CONTRACTOR TOTAL					405
	SCIENCE APPLICATIONS INTL CORP	Virginia	NAVY	RDTE/Missile and Space Systems-Op Systems		130
	SPARTA INC	California	ARMY	RDTE/Missile and Space Systems-Op Systems		500
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Missile and Space Systems-Op Systems		2,984
	SYSTEMS RES APPLICATIONS CORP	California	USAF	RDTF /Missile and Space Systems-Op Systems		1,957
	THIOKOL CORPORATION	Utah	NAVY USAF	RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems		1,909 185
	COUNTRY TOTAL					2,094

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC25 (CONTINUED)						
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	\$ 1,449	
	UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Missile and Space Systems-Op Systems	316	
	VREULS RESEARCH CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems	431	
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	5,166	
	R&D TOTAL				1,743,390	
AC26	ATSS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	797	
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	129	
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	66	
	AEROMET INC	Oklahoma	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	41	
	ALABAMA CRYOGENIC ENGINEERING	Florida	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	57	
	ALTUS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	51	
	AMERASIA TECHNOLOGY INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	84	
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	298	
	APPLIED SCIENCES INC	Ohio	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50	
	APPLIED TECHNOLOGY ASSOCIATES	Florida	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50	
	ARIAS RESEARCH ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	532	
	ASTRON CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	49	
	ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	67	
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50	
	B D SYSTEMS INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	155	
	CONTRACTOR TOTAL				205	
	ATM CORP	Conn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	135	
	AVCO CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	1,400	
	B D SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	69	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC26	(CONTINUED)					
BELTRAN ASSOCIATES INC	New York	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		280	
CIM SYSTEMS INC	Texas	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		48	
COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		48	
COMPUTATIONAL MECHANICS CO	Tennessee	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		390	
CORDEC CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		189	
CREARE RESEARCH & DEVELOPMENT	N.H.	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		305	
DAMASKOS INC	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		50	
DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		237	
ELECTRO OPTEK CORPORATION	N Carolina	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		61	
ELECTROCHIMICA CORPORATION	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		96	
ENERGY COMPRESSION RES CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		50	
ENFITEK INC	Texas	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		655	
EPSILON LAMBDA ELECTRONICS	Illinois	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		277	
EXTREL CORPORATION	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		252	
FLOWDRILL CORP	Washington	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		346	
FLUID PHYSICS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		57	
FOSTER CONSULTING CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		301	
FOSTER MILLER INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		419	
FOWLER MULLIN ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		58	
FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		1,300	
GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		425	
GENERAL SCIENCES INC	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		630	
GINER INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		49	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC26 (CONTINUED)					
	GREEN MOUNTAIN RADIO RES CO	Vermont	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	\$ 114
	HI TECH INC	Illinois	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	33
	HITTITE MICROWAVE CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	117
	HUGHES AIRCRAFT COMPANY	Arizona	ARMY	RDTE/Missile and Space Systems-Mgmt & Supp	1,278
	HYBERNONICS CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	264
	IMAGING SCIENCE TECHNOLOGIES	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	INTERACTIVE INTELL IMAGERY GRP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	150
	KOR ELECTRONICS	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	69
	LASER FARE LTD INC	Rhode Isld	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	48
	LASER POWER CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	54
	MARTIN MARIETTA CORPORATION	Florida	ARMY NAVY	RDTE/Missile and Space Systems-Mgmt & Supp RDTE/Missile and Space Systems-Mgmt & Supp	2,082 4,619
	COUNTRY TOTAL				
	MATERIALS SCIENCES CORP	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	49
	MICROWAVE MONOLITHICS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	114
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	650
		New Mexico	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	47
	CONTRACTOR TOTAL				
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	59
	P D A ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	350
	PERCEPTICS CORPORATION	Tennessee	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	295
	PHASEX CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	70
					6,701

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Directorate for Information
Operations and Reports

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION	\$	
AC26 (CONTINUED)							
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		48	
	PHYSICS MATHEMATICS COMPUTER	New Mexico	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		41	
	QUANT-EX CORPORATION	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		218	
	QUANTIC INDUSTRIES INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		235	
	REKENTHALER TECHNOLOGY ASSOC	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		206	
	ROTARY POSITIVE MOTORS	Washington	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		47	
	SACH SINHA & ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		65	
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		245	
	SEMCOR INC	Alabama	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		49	
	SIMONS JOHN C & ASSOC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		47	
	SPACE DATA CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		399	
	SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		1,295	
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		50	
	SPIRE CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		145	
	SRS TECHNOLOGIES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		249	
	SYSTEMS RES APPLICATIONS CORP	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		1,340	
	TAYLOR DEVICES INC	New York	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		276	
	TECHNOLOGY & MGT SYSTEMS	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		149	
	TECHNOLOGY APPLICATIONS GROUP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		48	
	TECHNOLOGY DEVELOPMENT ASSOCS	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		47	
	TOYON RESEARCH CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		336	
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp		1,256	
	TREADWELL CORPORATION	Conn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		150	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC26 (CONTINUED)					
	ULTRAMET	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	WYLE LABORATORIES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	208
	XONTECH INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	309
	XYNET CORPORATION	Ohio	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	49
	R&D TOTAL				28,722
AC31	ABARIS	Nevada	NAVY	RDTE/Ships-Basic Research	473
	ADA TECHNOLOGIES	Colorado	NAVY	RDTE/Ships-Basic Research	450
	ANRO ENGINEERING CONSULTANTS	Florida	NAVY	RDTE/Ships-Basic Research	50
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	NAVY	RDTE/Ships-Basic Research	49
	ARCTIC ENERGIES LTD	Maryland	NAVY	RDTE/Ships-Basic Research	49
	ARL INC	Virginia	NAVY	RDTE/Ships-Basic Research	42
	DEEGAN RESEARCH GROUP INC	Rhode Isld	NAVY	RDTE/Ships-Basic Research	49
	DEFENSE GROUP INC THE	Virginia	NAVY	RDTE/Ships-Basic Research	301
	FORMATION INC	New Jersey	NAVY	RDTE/Ships-Basic Research	50
	FOSTER MILLER INC	Mass	NAVY	RDTE/Ships-Basic Research	129
	GENERAL MOTORS CORPORATION	Conn	NAVY	RDTE/Ships-Basic Research	593
	GEO CENTERS INC	Mass	NAVY	RDTE/Ships-Basic Research	496
	GINER INC	Mass	NAVY	RDTE/Ships-Basic Research	50
	GLOBAL ASSOCIATES LTD	Virginia	NAVY	RDTE/Ships-Basic Research	48
	GOULD INC	Ohio	ARMY	RDTE/Ships-Basic Research	788
	HOLOMETRIX INC	Mass	NAVY	RDTE/Ships-Basic Research	50
	INTEGRATED SYSTEMS ANALYSTS	Virginia	NAVY	RDTE/Ships-Basic Research	1,526
	LAQUE CTR FOR CRRSION TCHNOLGY	N Carolina	NAVY	RDTE/Ships-Basic Research	606

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
M D S MEMBRANE DEVELOPMENT SPS		California		RDTE/Ships-Basic Research	50	
MEDICAL SYSTEMS SUPPORT INC		Virginia		RDTE/Ships-Basic Research	50	
MICRO SENSOR SYSTEMS INC		Virginia		RDTE/Ships-Basic Research	50	
MICROALLOYING INTERNATIONAL		Texas		RDTE/Ships-Basic Research	65	
MICROSENSOR SYSTEMS INC		Virginia		RDTE/Ships-Basic Research	41	
N K F ENGINEERING INC		Maryland		RDTE/Ships-Basic Research	50	
NORTHWEST TECHNICAL INDUSTRIES		Washington		RDTE/Ships-Basic Research	41	
NUCLEAR & AEROSPACE MAT CORP		California		RDTE/Ships-Basic Research	49	
OAK RIDGE NATIONAL LABS		Tennessee		RDTE/Ships-Basic Research	80	
OPTICAL TECHNOLOGIES INC		Virginia		RDTE/Ships-Basic Research	494	
ORINCON CORPORATION		California		RDTE/Ships-Basic Research	48	
PASKOWITZ ASSOCIATES		Virginia		RDTE/Ships-Basic Research	48	
PERFECT VIEW INC		N Carolina		RDTE/Ships-Basic Research	66	
PHOTON RESEARCH ASSOCIATES		California		RDTE/Ships-Basic Research	49	
PLANNING SYSTEMS INCORPORATED		Virginia		RDTE/Ships-Basic Research	49	
PROACTIVE RESOURCES		Rhode Isld		RDTE/Ships-Basic Research	43	
REFRACTORY COMPOSITES INC		California		RDTE/Ships-Basic Research	48	
S TRON		California		RDTE/Ships-Basic Research	43	
SATCON TECHNOLOGY CORPORATION		Mass		RDTE/Ships-Basic Research	648	
SOFTWARE ARCHITECTURE & ENRG		Virginia		RDTE/Ships-Basic Research	45	
SONALYSTS INC		Conn		RDTE/Ships-Basic Research	378	
SPARTA INC		California		RDTE/Ships-Basic Research	148	
SPRINGBORN LABORATORIES INC		Conn		RDTE/Ships-Basic Research	216	

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R&D CONTRACTOR NAME COUNTRY DEPT (AMOUNTS IN THOUSANDS)

AC31 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION	\$	
	STRUCTURED TECHNOLOGY CORP	Conn	NAVY	RDTE/Ships-Basic Research	\$ 50	
	SUPERSESSION SYSTEMS ENG	California	NAVY	RDTE/Ships-Basic Research	50	
	SWEET WOOD SPECIALTY COMPANY	Penn	NAVY	RDTE/Ships-Basic Research	47	
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Ships-Basic Research	488	
	TECHNOLOGY INTGRTRN DEV GROUP	Mass	NAVY	RDTE/Ships-Basic Research	50	
	TEXAS RESEARCH INSTITUTE	Texas	NAVY	RDTE/Ships-Basic Research	36	
	TEXAS RESEARCH INSTITUTE INC	Texas	NAVY	RDTE/Ships-Basic Research	654	
	TEXTILE TECHNOLOGIES INC	Penn	NAVY	RDTE/Ships-Basic Research	48	
	UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Ships-Basic Research	65	
		Maryland	NAVY	RDTE/Ships-Basic Research	30	
	CONTRACTOR TOTAL				95	
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Ships-Basic Research	30	
	VECTOR MICRO	Virginia	NAVY	RDTE/Ships-Basic Research	495	
	WAGNER DANIEL H ASSOCIATES	California	NAVY	RDTE/Ships-Basic Research	518	
	WORKSCIENCE CORPORATION	Virginia	NAVY	RDTE/Ships-Basic Research	50	
	R&D TOTAL				11,209	
AC32	A A I CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	1,293	
	ANALYTIC POWER CORP	Mass	NAVY	RDTE/Ships-Exploratory Development	46	
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Ships-Exploratory Development	288	
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	1,666	
	AVCO RESEARCH LABORATORY INC	Mass	NAVY	RDTE/Ships-Exploratory Development	404	
	CASDE CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	217	
	E G & G WASHINGTON ALALYTL SVC	Maryland	NAVY	RDTE/Ships-Exploratory Development	785	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC32 (CONTINUED)					
	EDO CORPORATION	New York		RDTE/Ships-Exploratory Development	67
	EINSTEIN ALBERT HLTHCRE	Penn		RDTE/Ships-Exploratory Development	80
	FLOW INDUSTRIES INC	Washington		RDTE/Ships-Exploratory Development	80
	GAINES ELECTRIC SUPPLY CO INC	California		RDTE/Ships-Exploratory Development	93
	GENERAL ELECTRIC CO	New York		RDTE/Ships-Exploratory Development	1,409
	I T RESEARCH INSTITUTE	Tennessee		RDTE/Ships-Exploratory Development	850
	KRAUSE P C & ASSOCIATES INC	Indiana		RDTE/Ships-Exploratory Development	250
	MC DONNELL DOUGLAS CORPORATION	California		RDTE/Ships-Exploratory Development	300
	METALWORKING TECHNOLOGY INC	Penn		RDTE/Ships-Exploratory Development	72
	MICROALLOYING INTERNATIONAL	Texas		RDTE/Ships-Exploratory Development	60
	MTS SYSTEMS CORPORATION	Minnesota		RDTE/Ships-Exploratory Development	2,000
	NATIONAL STL SHPBLDG COMPANY	California		RDTE/Ships-Exploratory Development	60
	NEWPORT NEWS SHPBLDG DRYDOCK	Virginia		RDTE/Ships-Exploratory Development	5,009
	RESEARCH TRIANGLE INSTITUTE	N Carolina		RDTE/Ships-Exploratory Development	120
	SEAWARD INTERNATIONAL	Virginia		RDTE/Ships-Exploratory Development	214
	SPECIALTY PLASTICS INC	Louisiana		RDTE/Ships-Exploratory Development	446
	TEXAS INSTRUMENTS INCORPORATED	Texas		RDTE/Ships-Exploratory Development	25
	TRACOR APPLIED SCIENCES INC	Maryland		RDTE/Ships-Exploratory Development	55
	TRACOR HYDRONAUTICS INC	Maryland		RDTE/Ships-Exploratory Development	957
	UNIVERSITY OF PITTSBURGH TRUST	Ohio		RDTE/Ships-Exploratory Development	170
		Penn		RDTE/Ships-Exploratory Development	120
	CONTRACTOR TOTAL				290
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin		RDTE/Ships-Exploratory Development	100

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC32 (CONTINUED)					
VITRO CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	\$ 7,009	
WESTINGHOUSE ELECTRIC CORP	Ohio	NAVY	RDTE/Ships-Exploratory Development	700	
	Penn	NAVY	RDTE/Ships-Exploratory Development	150	
			CONTRACTOR TOTAL	850	
R&D TOTAL				25,095	
AC33 A A I CORPORATION	Maryland	NAVY	RDTE/Ships-Advanced Development	3,587	
ABARIS	Nevada	NAVY	RDTE/Ships-Advanced Development	45	
ADVANCE SYSTEMS TECHNOLOGY	Virginia	NAVY	RDTE/Ships-Advanced Development	74	
ALCOA/TRE INC	California	NAVY	RDTE/Ships-Advanced Development	43	
ARGUS RESEARCH CORP	Virginia	NAVY	RDTE/Ships-Advanced Development	59	
BOEING COMPANY THE	Penn	NAVY	RDTE/Ships-Advanced Development	50	
CONSULTANTS & DESIGNERS INC	Virginia	NAVY	RDTE/Ships-Advanced Development	44	
DEERE JOHN TECHNOLOGIES INTL	New Jersey	NAVY	RDTE/Ships-Advanced Development	2,123	
E G & G SPECIAL PROJECTS INC	Nevada	NAVY	RDTE/Ships-Advanced Development	931	
E G & G WASHINGTON ALAYTL SVC	Conn	NAVY	RDTE/Ships-Advanced Development	559	
	Maryland	NAVY	RDTE/Ships-Advanced Development	6,020	
			CONTRACTOR TOTAL	6,579	
ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Ships-Advanced Development	500	
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Advanced Development	700	
FIBER MATERIALS INC	Maine	NAVY	RDTE/Ships-Advanced Development	34	
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Advanced Development	46,204	
GENERAL ELECTRIC CO	Florida	NAVY	RDTE/Ships-Advanced Development	205	
	Mass	NAVY	RDTE/Ships-Advanced Development	15,975	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	PAGE
AC33 (CONTINUED)						
		New York	NAVY	RDTE/Ships-Advanced Development	\$ 120,115	59
		Ohio	NAVY	RDTE/Ships-Advanced Development	384	
	CONTRACTOR TOTAL				136,679	
HALE FIRE PUMP CO	Penn	NAVY	RDTE/Ships-Advanced Development		605	
INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Ships-Advanced Development		1,628	
MANTECH INTERNATIONAL CORP	New Mexico	NAVY	RDTE/Ships-Advanced Development		243	
	Virginia	NAVY	RDTE/Ships-Advanced Development		279	
CONTRACTOR TOTAL					527	
MINIGRAPH INC	Penn	NAVY	RDTE/Ships-Advanced Development		1,395	
NATIVE AMERICAN CONSULTANTS	D.C.	NAVY	RDTE/Ships-Advanced Development		619	
	Maryland	NAVY	RDTE/Ships-Advanced Development		114	
CONTRACTOR TOTAL					733	
NEWPORT NEWS SHPBLDING DRYDOCK	Virginia	NAVY	RDTE/Ships-Advanced Development		339	
OHIO STATE UNIVERSITY	Ohio	NAVY	RDTE/Ships-Advanced Development		26	
ORI MANTECH	New Mexico	NAVY	RDTE/Ships-Advanced Development		127	
PEERLESS MFG CO	Texas	NAVY	RDTE/Ships-Advanced Development		57	
PIONEER TECHNOLOGY CORPORATION	Maryland	NAVY	RDTE/Ships-Advanced Development		100	
PROPELLION DYNAMICS INC	Maryland	NAVY	RDTE/Ships-Advanced Development		32	
PROTO TECHNOLOGY	Conn	NAVY	RDTE/Ships-Advanced Development		375	
RAYTHEON COMPANY	Mass	NAVY	RDTE/Ships-Advanced Development		1,631	
SCIENCE APPLICATIONS INTL CORP	N.H.	NAVY	RDTE/Ships-Advanced Development		49	
SOMAT CORPORATION	Penn	NAVY	RDTE/Ships-Advanced Development		500	
SYSTEMS PLANNING CORP	California	NAVY	RDTE/Ships-Advanced Development		2,587	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	81
AC33 (CONTINUED)						
		Virginia		NAVY RDTE/Ships-Advanced Development		2,668
	CONTRACTOR TOTAL					70
UNITED SPACE BOOSTERS INC	Alabama		NAVY	RDTE/Ships-Advanced Development		100
UNITED STATES DEPT OF COMMERCE	Colorado		NAVY	RDTE/Ships-Advanced Development		850
UNITED TECHNOLOGIES CORP	Conn		NAVY	RDTE/Ships-Advanced Development		30
UNIVERSITY OF DAYTON	Ohio		NAVY	RDTE/Ships-Advanced Development		4,744
VECTOR RESEARCH COMPANY INC	Maryland		NAVY	RDTE/Ships-Advanced Development		38
VILLAGE AUTO BODY INC	California		NAVY	RDTE/Ships-Advanced Development		250,971
WESTINGHOUSE ELECTRIC CORP	Penn		NAVY	RDTE/Ships-Advanced Development		465,247
R&D TOTAL						793
AC34 ALLIED SIGNAL AEROSPACE CO	Maryland		NAVY	RDTE/Ships-Engineering Development		341
ANALYSIS & TECHNOLOGY INC	Conn		NAVY	RDTE/Ships-Engineering Development		203
APPLIED HYDRO ACOUSTICS RES	Maryland		NAVY	RDTE/Ships-Engineering Development		145
ARL INC	D.C.		NAVY	RDTE/Ships-Engineering Development		811
BODENSEEWERK GERAETE TECHNIK GM	GERMANY, F		NAVY	RDTE/Ships-Engineering Development		87
CONTROL DATA CORPORATION	Maryland		NAVY	RDTE/Ships-Engineering Development		2,093
DATA DESIGN LABORATORIES	Virginia		NAVY	RDTE/Ships-Engineering Development		759
DRAPER CHARLES STARK LAB INC	Mass		NAVY	RDTE/Ships-Engineering Development		130
GENERAL AERO PRODUCTS CORP	Michigan		NAVY	RDTE/Ships-Engineering Development		22,433
GENERAL DYNAMICS CORPORATION	California		NAVY	RDTE/Ships-Engineering Development		3,706
CONTRACTOR TOTAL	Conn		NAVY	RDTE/Ships-Engineering Development		26,139
HAZELTINE CORPORATION	Mass		NAVY	RDTE/Ships-Engineering Development		3,507

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
HUGHES AIRCRAFT COMPANY	California			RDTE/Ships-Engineering Development	5,597	
JOHNS HOPKINS UNIVERSITY	Maryland	NAVY		RDTE/Ships-Engineering Development	33,189	
MARTIN MARIETTA CORPORATION	Maryland	NAVY		RDTE/Ships-Engineering Development	280	
N K F ENGINEERING INC	Virginia	NAVY		RDTE/Ships-Engineering Development	54	
ROCKWELL INTERNATIONAL CORP	California	NAVY		RDTE/Ships-Engineering Development	4,551	
S Y S	California	NAVY		RDTE/Ships-Engineering Development	90	
SEPARATION SYSTEMS TECHNOLOGY	California	NAVY		RDTE/Ships-Engineering Development	489	
SHARP GEORGE G INC	Virginia	NAVY		RDTE/Ships-Engineering Development	50	
STEWART & STEVENSON SERVICES	Texas	ARMY		RDTE/Ships-Engineering Development	14,186	
T CARROLL ASSOCIATES INC	Maryland	NAVY		RDTE/Ships-Engineering Development	125	
TACTICAL TRUCK CORPORATION	Michigan	ARMY		RDTE/Ships-Engineering Development	8,957	
TELEDYNE INDUSTRIES INC	Michigan	ARMY		RDTE/Ships-Engineering Development	8,467	
TEXTRON INC	Michigan	NAVY		RDTE/Ships-Engineering Development	450	
UNISYS CORPORATION	Virginia	NAVY		RDTE/Ships-Engineering Development	27	
UNIVERSITY OF DAYTON	Ohio	NAVY		RDTE/Ships-Engineering Development	304	
UNIVERSITY OF MARYLAND	Maryland	NAVY		RDTE/Ships-Engineering Development	98	
WISCONSIN CENTRIFUGAL INC	Wisconsin	NAVY		RDTE/Ships-Engineering Development	47	
WYLE LABORATORIES	Virginia	NAVY		RDTE/Ships-Engineering Development	2,371	
R&D TOTAL					114,340	
AC35 ELECTROMAGNETIC LAUNCH RES	Mass	NAVY		RDTE/Ships-Op Systems Development	700	
GENERAL ATOMICS	California	NAVY		RDTE/Ships-Op Systems Development	600	
GENERAL ELECTRIC CO	New York	NAVY		RDTE/Ships-Op Systems Development	604	
GEO CENTERS INC	Mass	NAVY		RDTE/Ships-Op Systems Development	432	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC35 (CONTINUED)						
	INDUSTRIAL QUALITY INC	Maryland	NAVY	RDTE/Ships-Op Systems Development	\$ 40	
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Op Systems Development	140	
	SOMAT CORPORATION	Penn	NAVY	RDTE/Ships-Op Systems Development	238	
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Ships-Op Systems Development	50	
		Texas	NAVY	RDTE/Ships-Op Systems Development	302	
	CONTRACTOR TOTAL				352	
	VITRO CORPORATION	Maryland	NAVY	RDTE/Ships-Op Systems Development	1,771	
	R&D TOTAL				4,877	
AC36						
	CBI NA-CON INC	Tennessee	NAVY	RDTE/Ships-Management & Support	17,021	
	FUZETRON INC	California	NAVY	RDTE/Ships-Management & Support	50	
	ROBOCOM SYSTEMS INC	New York	NAVY	RDTE/Ships-Management & Support	62	
	R&D TOTAL				17,133	
AC41						
	ARMORED VEH TECH ASSOC	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	33	
	ARMORED VHCLC TCHNLOGIES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	455	
	CEMCOM RESEARCH ASSOCIATES	Maryland	ARMY	RDTE/Tank - Automotive-Basic Research	250	
	EDO CORPORATION	Conn	ARMY	RDTE/Tank - Automotive-Basic Research	30	
	FOSTER MILLER INC	Mass	ARMY	RDTE/Tank - Automotive-Basic Research	139	
	FROUDE ENGINEERING INC	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	75	
	GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Tank - Automotive-Basic Research	703	
		Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	686	
	CONTRACTOR TOTAL				1,389	
	GONZALEZ DESIGN ENGRG COMPANY	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	1,777	
	MICHIGAN TECHNLGICAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	340	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC41 (CONTINUED)						
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	\$ 87	
	UNION CORPORATION	Penn	ARMY	RDTE/Tank - Automotive-Basic Research	6,037	
	WEST VIRGINIA UNIVERSITY	W Virginia	ARMY	RDTE/Tank - Automotive-Basic Research	197	
	R&D TOTAL				10,809	
AC42	A A I CORPORATION	Maryland	ARMY	RDTE/Tank - Automotive-Exploratory Develop	452	
	ADIABATICS INCORPORATED	Indiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	291	
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	245	
	ARMORED VEHICLE TECHNOLOGIES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	2,396	
	AUTOMODATION RESEARCH CORP	Nevada	ARMY	RDTE/Tank - Automotive-Exploratory Develop	44	
	BBN COMMUNICATIONS CORP	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	225	
	BBN SYSTEMS & TECH CORP	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	52	
	BKM INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	82	
	CALIFORNIA RES & TECHNOLOGY	New Jersey	NAVY	RDTE/Tank - Automotive-Exploratory Develop	143	
	CARBORIDE CORPORATION	Ohio	ARMY	RDTE/Tank - Automotive-Exploratory Develop	37	
	CHENG TECHNOLOGY & SERVICES	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	445	
	CIM SYSTEMS INC	Texas	ARMY	RDTE/Tank - Automotive-Exploratory Develop	431	
	COLSA INC	Alabama	ARMY	RDTE/Tank - Automotive-Exploratory Develop	300	
	CUMMINS ENGINE COMPANY INC	Indiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	12,908	
	FAILURE ANALYSIS ASSOCIATES	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	316	
	G M HUGHES ELECTRONICS CORP	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	226	
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	722	
	GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	10,288	
	GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	2,561	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC42 (CONTINUED)						
	HODGES TRANSPORTATION INC	Nevada	ARMY	RDTE/Tank - Automotive-Exploratory Develop	521	
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	332	
	INDEX INDUSTRIES INC	Washington	ARMY	RDTE/Tank - Automotive-Exploratory Develop	139	
	MATERIALS SCIENCES CORP	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	68	
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Exploratory Develop	895	
	MICHIGAN TECHNICAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	547	
	MICROWAVE RADIO CORP	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	72	
	ODETICS INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	503	
	PERKIN ELMER CORPORATION	Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	41	
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	58	
	RECON & OPTICAL INC	Illinois	ARMY	RDTE/Tank - Automotive-Exploratory Develop	137	
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Tank - Automotive-Exploratory Develop	274	
	TECHNICAL RESEARCH ASSOCIATES	Utah	ARMY	RDTE/Tank - Automotive-Exploratory Develop	153	
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	3,285	
	TRW INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	350	
	TSI INCORPORATED	Minnesota	ARMY	RDTE/Tank - Automotive-Exploratory Develop	175	
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	68	
	WILLIAMS INTERNATIONAL CORP	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	39-	
	R&D TOTAL				39,723	
AC43	ALLIED SIGNAL AEROSPACE CO	California	ARMY	RDTE/Tank - Automotive-Advanced Developmen	400	
	ARMORED VEHICLE TECHNOLOGIES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	13,000	
	CADILLAC GAGE TEXTRON INC	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	150	
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Tank - Automotive-Advanced Developmen	197	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC43 (CONTINUED)						
	FMC CORPORATION	Alabama	ARMY	RDTE/Tank - Automotive-Advanced Development	\$ 500	
		California	ARMY	RDTE/Tank - Automotive-Advanced Development	7,755	
	CONTRACTOR TOTAL				8,255	
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	4,364	
	GENERAL MOTORS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	343	
	HANSEN ENGINE CORPORATION	Minnesota	ARMY	RDTE/Tank - Automotive-Advanced Development	295	
	HARSCO CORPORATION	Penn	ARMY	RDTE/Tank - Automotive-Advanced Development	3,150	
	LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Tank - Automotive-Advanced Development	300	
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Advanced Development	200	
	MICHIGAN TECHNLGICAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	500	
	MTS SYSTEMS CORPORATION	Minnesota	ARMY	RDTE/Tank - Automotive-Advanced Development	1,220	
	RICKARD COMPUTER GROUP	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	36	
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	430	
	R&D TOTAL				32,840	
AC44	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	5,429	
	AVCO CORPORATION	Conn	ARMY	RDTE/Tank - Automotive-Engr Development	1-	
	BUNDESAMT FUER WEHRTECHNIK	GERMANY F	ARMY	RDTE/Tank - Automotive-Engr Development	1,834	
	CASDE CORPORATION	California	NAVY	RDTE/Tank - Automotive-Engr Development	1,350	
	CHAMBERLAIN MANUFACTURING CORP	Illinois	ARMY	RDTE/Tank - Automotive-Engr Development	30	
		Maryland	ARMY	RDTE/Tank - Automotive-Engr Development	308	
	CONTRACTOR TOTAL				338	
	FMC CORPORATION	Alabama	ARMY	RDTE/Tank - Automotive-Engr Development	42	
		California	ARMY	RDTE/Tank - Automotive-Engr Development	59,297	

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AC44 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
CONTRACTOR TOTAL						
	GENERAL DYNAMICS CORPORATION	Illinois	ARMY	RDTE/Tank - Automotive-Engr Development	\$ 59,339	
		Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	400	
		Ohio	ARMY	RDTE/Tank - Automotive-Engr Development	155,653	
	CONTRACTOR TOTAL				631,086	
	GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Tank - Automotive-Engr Development	787,139	
		Vermont	ARMY	RDTE/Tank - Automotive-Engr Development	195	
CONTRACTOR TOTAL						
	GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Tank - Automotive-Engr Development	7,526	
	HODGES TRANSPORTATION INC	Nevada	ARMY	RDTE/Tank - Automotive-Engr Development	7,721	
	K D I ELECTRO TEC CORP	Virginia	ARMY	RDTE/Tank - Automotive-Engr Development	874	
	LORAL CORPORATION	Arizona	ARMY	RDTE/Tank - Automotive-Engr Development	261	
	MICHELIN TIRE CORP	S Carolina	ARMY	RDTE/Tank - Automotive-Engr Development	35	
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Tank - Automotive-Engr Development	416	
	R&D TOTAL				56-	
	AC45 AM GENERAL CORPORATION	Indiana	ARMY	RDTE/Tank - Automotive-Op Systems Developm	54	
	AVCO CORPORATION	Conn	ARMY	RDTE/Tank - Automotive-Op Systems Developm	864,733	
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Tank - Automotive-Op Systems Developm	3,915	
	BOEING COMPANY THE	Texas	NAVY	RDTE/Tank - Automotive-Op Systems Developm	1,005	
	CUMMINS ENGINE COMPANY INC	Indiana	ARMY	RDTE/Tank - Automotive-Op Systems Developm	105	
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	90	
	ISRAEL MILITARY INDUSTRIES	ISRAEL	NAVY	RDTE/Tank - Automotive-Op Systems Developm	137	
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Op Systems Developm	5,002	
					107	
					811	

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ACAS (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	450
AC45 (CONTINUED)						
SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Tank - Automotive-Op Systems Developm			76
WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm			76
R&D TOTAL						11. 698
AC51 ADVANCED TECHNOLOGY INC	New Mexico	USAF	RDTE/Weapons-Basic Research			50
AMERICAN POWER JET CO INC	New Jersey	NAVY	RDTE/Weapons-Basic Research			50
BRUNSWICK CORPORATION	California	ARMY	RDTE/Weapons-Basic Research			96
CHAMBERLAIN MANUFACTURING CORP	Maine	USAF	RDTE/Weapons-Basic Research			1. 568
ELECTROMAGNETIC LAUNCH RES	Mass	NAVY	RDTE/Weapons-Basic Research			961
GENERAL DYNAMICS CORPORATION	Virginia	NAVY	RDTE/Weapons-Basic Research			931
HEWLETT PACKARD COMPANY	New Mexico	ARMY	RDTE/Weapons-Basic Research			96
HEXCEL CORPORATION	Arizona	ARMY	RDTE/Weapons-Basic Research			43
HONEYWELL INC	Minnesota	USAF	RDTE/Weapons-Basic Research			2. 400
I A P RESEARCH INC	Ohio	USAF	RDTE/Weapons-Basic Research			50
INTERGRATED PARALLEL TECHNOLOGY	California	USAF	RDTE/Weapons-Basic Research			50
LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Weapons-Basic Research			163
MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Weapons-Basic Research			699
MAXWELL LABORATORIES INC	New Mexico	USAF	RDTE/Weapons-Basic Research			54
METRON CORPORATION	Penn	NAVY	RDTE/Weapons-Basic Research			400
MOOG INC	New York	ARMY	RDTE/Weapons-Basic Research			51
NORDEN SYSTEMS INC	New York	NAVY	RDTE/Weapons-Basic Research			1. 214
NORTH TEXAS STATE UNIVERSITY	Texas	USAF	RDTE/Weapons-Basic Research			60
ODETICS INC	California	ARMY	RDTE/Weapons-Basic Research			1. 169
PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Weapons-Basic Research			656

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	PAGE
AC51 (CONTINUED)						
	REMINGTON ARMS COMPANY INC	New York	ARMY	RDTE/Weapons-Basic Research	\$ 2,005	
	ROCKWELL INTERNATIONAL CORP	New Mexico	USAF	RDTE/Weapons-Basic Research	37	
	ROLLS ROYCE PLC	UNITED KINGDOM	ARMY	RDTE/Weapons-Basic Research	249	
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Basic Research	193	
	SAPHIKON INC	N.H.	NAVY	RDTE/Weapons-Basic Research	207	
	SCIENCE APPLICATIONS INT'L CORP	California	NAVY	RDTE/Weapons-Basic Research	541	
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Weapons-Basic Research	62	
	SPARTA INC	Alabama	ARMY	RDTE/Weapons-Basic Research	1,648	
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Weapons-Basic Research	408	
	SYNDETIX INC	New Mexico	USAF	RDTE/Weapons-Basic Research	2,694	
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Weapons-Basic Research	508	
	TROUND INTERNATIONAL INC	New Jersey	NAVY	RDTE/Weapons-Basic Research	1,070	
	UNITED INTERNATIONAL ENRG	New Mexico	USAF	RDTE/Weapons-Basic Research	30	
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Weapons-Basic Research	80	
	UNIVERSITY OF DENVER	Colorado	NAVY	RDTE/Weapons-Basic Research	65	
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Basic Research	130	
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Weapons-Basic Research	68	
	WICKES COMPANIES INC	Penn	ARMY	RDTE/Weapons-Basic Research	58	
	R&D TOTAL				20,814	
AC52	A A I CORPORATION	Maryland	ARMY	RDTE/Weapons-Exploratory Development	876	
	A T & T TECHNOLOGIES INC	Penn	USAF	RDTE/Weapons-Exploratory Development	8,882	
	APPLICATIONS RESEARCH CORP	Florida	USAF	RDTE/Weapons-Exploratory Development	57-	
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	249	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC52 (CONTINUED)					
LORAL CORPORATION	Arizona	USAF	RDTE/Weapons-Exploratory Development	\$ 2,979	
LOUISIANA STATE UNIVERSITY	Louisiana	USAF	RDTE/Weapons-Exploratory Development	103	
M TECHNOLOGIES	Penn	USAF	RDTE/Weapons-Exploratory Development	56	
MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Weapons-Exploratory Development	307	
	Maryland	NAVY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development	2,993 59	
	COUNTRY TOTAL				
	New Mexico	USAF	RDTE/Weapons-Exploratory Development	3,052	
	CONTRACTOR TOTAL				
MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Exploratory Development	3,409	
	New Mexico	USAF	RDTE/Weapons-Exploratory Development	200	
	CONTRACTOR TOTAL				
MC DONNELL DOUGLAS CORPORATION	Missouri	NAVY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development	1,058 950	
	COUNTRY TOTAL				
MC DONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Weapons-Exploratory Development	1,258	
MISSION RESEARCH CORPORATION	California	ARMY NAVY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development	207 330	
	COUNTRY TOTAL				
MOTOROLA INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	464	
	CONTRACTOR TOTAL				
NEW MEXICO INST OF MIN TCHNLGY	Arizona	USAF	RDTE/Weapons-Exploratory Development	143	
NORTHROP CORPORATION	New Mexico California	NAVY ARMY	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development	607 2,738	
	CONTRACTOR TOTAL				

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC52 (CONTINUED)					
	ODETICS INC	California	ARMY	RDTE/Weapons-Exploratory Development	228
	ORION INT'L TECHNOLOGIES	New Mexico	USAF	RDTE/Weapons-Exploratory Development	60
	ORLANDO TECHNOLOGY INC	Florida	NAVY	RDTE/Weapons-Exploratory Development	33
	PENNSYLVANIA STATE UNIV THE	Penn	USAF	RDTE/Weapons-Exploratory Development	70
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Weapons-Exploratory Development	889
	PULSE SCIENCES INC	California	NAVY	RDTE/Weapons-Exploratory Development	242
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Exploratory Development	65
		New Mexico	USAF	RDTE/Weapons-Exploratory Development	477
	CONTRACTOR TOTAL				542
	RAYTHEON COMPANY	Mass	USAF	RDTE/Weapons-Exploratory Development	3,294
	ROCKWELL DEL INC	California	ARMY	RDTE/Weapons-Exploratory Development	31
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Weapons-Exploratory Development	245
		New Mexico	USAF	RDTE/Weapons-Exploratory Development	1,901
	CONTRACTOR TOTAL				2,146
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	743
	SCIENCE APPLICATIONS INT'L CORP	California	USAF	RDTE/Weapons-Exploratory Development	
	SILICON DESIGNS INC	Washington	NAVY	RDTE/Weapons-Exploratory Development	50
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Weapons-Exploratory Development	119
	SPARTA INC	California	ARMY	RDTE/Weapons-Exploratory Development	1,500
			USAF	RDTE/Weapons-Exploratory Development	48
	COUNTRY TOTAL				
	SPECTRA TECHNOLOGY INC	Washington	USAF	RDTE/Weapons-Exploratory Development	1,548
	STEYR-DAIMLER-PUCH AG	AUSTRIA	ARMY	RDTE/Weapons-Exploratory Development	443
					1,691

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC52 (CONTINUED)						
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Weapons-Exploratory Development	\$ 350	
	TELEFLEX INCORPORATED	Penn	USAF	RDTE/Weapons-Exploratory Development	36-	
	TROUND INTERNATIONAL INC	New Jersey	NAVY	RDTE/Weapons-Exploratory Development	54	
	UNITED INTERNATIONAL ENGRG	New Mexico	USAF	RDTE/Weapons-Exploratory Development	74	
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Weapons-Exploratory Development	477	
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Weapons-Exploratory Development	884	
	UNIVERSITY OF IDAHO	Idaho	USAF	RDTE/Weapons-Exploratory Development	55	
	UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Weapons-Exploratory Development	104	
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Exploratory Development	1,655	
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Weapons-Exploratory Development	75	
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Weapons-Exploratory Development	1,052	
	VERITAY TECHNOLOGY INC	New York	NAVY	RDTE/Weapons-Exploratory Development	50	
	R&D TOTAL				53,128	
						6,540
AC53	ACUREX CORPORATION	Ohio	USAF	RDTE/Weapons-Advanced Development		
	ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Weapons-Advanced Development		
	ANALYTIC SCIENCES CORP THE	Mass	USAF	RDTE/Weapons-Advanced Development	105	
	APPLIED DYNAMICS INTERNATIONAL	Michigan	USAF	RDTE/Weapons-Advanced Development	26	
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development	3,538	
	AVCO RESEARCH LABORATORY INC	Mass	USAF	RDTE/Weapons-Advanced Development	8,514	
	BALL CORPORATION	Colorado	USAF	RDTE/Weapons-Advanced Development	16,794	
		New Mexico	USAF	RDTE/Weapons-Advanced Development	3,176	
	CONTRACTOR TOTAL				19,970	
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	1,334	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC53 (CONTINUED)						
	BOEING COMPANY THE	Alabama	USAF	RDTE/Weapons-Advanced Development	\$ 103	
		Washington	NAVY USAF	RDTE/Weapons-Advanced Development	60,182	
				RDTE/Weapons-Advanced Development	1,160	
				COUNTRY TOTAL	61,342	
	CONTRACTOR TOTAL	Mass	NAVY USAF	RDTE/Weapons-Advanced Development	61,445	
				RDTE/Weapons-Advanced Development	739	
				COUNTRY TOTAL	200	
	BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	939	
	COAST CRYOGENICS	California	USAF	RDTE/Weapons-Advanced Development	760	
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	231	
	CONTRAVES GOERZ CORPORATION	Penn	USAF	RDTE/Weapons-Advanced Development	5,942	
	CORNING INC	New York	USAF	RDTE/Weapons-Advanced Development	429	
	CORREA ENTERPRISES INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	173	
	CREARE RESEAF :H & DEVELOPMENT	N.H.	USAF	RDTE/Weapons-Advanced Development	50	
	CSA ENGINEERING INC	California	USAF	RDTE/Weapons-Advanced Development	53	
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Weapons-Advanced Development	50	
	EAGLE TECHNOLOGY INC	Florida	NAVY	RDTE/Weapons-Advanced Development	335	
	FORD AEROSPACE COMMOTIONS CORP	California	NAVY	RDTE/Weapons-Advanced Development	425	
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Weapons-Advanced Development	500	
	GENERAL ATOMICS	California	USAF	RDTE/Weapons-Advanced Development	1,790	
	GENERAL ELECTRIC CO	New Jersey	USAF	RDTE/Weapons-Advanced Development	143	
		Penn	USAF	RDTE/Weapons-Advanced Development	4,359	
		Vermont	ARMY	RDTE/Weapons-Advanced Development	1,707	
				CONTRACTOR TOTAL	1,761	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
CONTRACTOR TOTAL					
	HARRIS CORPORATION	Florida	ARMY	RDTE/Weapons-Advanced Development	7,827
	HERCULES INCORPORATED	Utah	USAF	RDTE/Weapons-Advanced Development	6,189
	HONEYWELL INC	Arizona	USAF	RDTE/Weapons-Advanced Development	300
		Florida	USAF	RDTE/Weapons-Advanced Development	2,510
		Minnesota	NAVY	RDTE/Weapons-Advanced Development	154
				RDTE/Weapons-Advanced Development	500
					3,164
CONTRACTOR TOTAL					
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Weapons-Advanced Development	996
		USAFA		RDTE/Weapons-Advanced Development	10,472
			COUNTRY TOTAL		11,468
	I R T CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	2,415
	INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Weapons-Advanced Development	46
	KAMAN CORPORATION	Conn	USAF	RDTE/Weapons-Advanced Development	19,362
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	2,801
	KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	573
	LITTON INDUSTRIES INC	Mass	USAF	RDTE/Weapons-Advanced Development	222
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Weapons-Advanced Development	6,785
		New Mexico	USAF	RDTE/Weapons-Advanced Development	850
			CONTRACTOR TOTAL		7,635
	LORAL CORPORATION	Ohio	NAVY	RDTE/Weapons-Advanced Development	2,497
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Weapons-Advanced Development	1,064
		Florida	ARMY	RDTE/Weapons-Advanced Development	67,654
		New Mexico	USAF	RDTE/Weapons-Advanced Development	960

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
CONTRACTOR TOTAL					
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Advanced Development	\$ 69,678
		New Mexico	USAF	RDTE/Weapons-Advanced Development	110
					340
	CONTRACTOR TOTAL				450
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	1,314
		Missouri	NAVY USAF	RDTE/Weapons-Advanced Development RDTE/Weapons-Advanced Development	500 5,880
	COUNTRY TOTAL				6,380
	CONTRACTOR TOTAL				
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	7,694
		New Mexico	USAF	RDTE/Weapons-Advanced Development	400
	CONTRACTOR TOTAL				1,930
	MOTOROLA INC	Arizona	ARMY	RDTE/Weapons-Advanced Development	2,330
	NORTHROP CORPORATION	Mass	USAF	RDTE/Weapons-Advanced Development	222
	PARKS ASSOCIATES	Virginia	NAVY	RDTE/Weapons-Advanced Development	415
	PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Weapons-Advanced Development	75
	PHOTON RESEARCH ASSOCIATES	California	USAF	RDTE/Weapons-Advanced Development	3,111
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Weapons-Advanced Development	100
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Advanced Development	500
		New Mexico	USAF	RDTE/Weapons-Advanced Development	1,898
	CONTRACTOR TOTAL				6,800
	RIVERSIDE RESEARCH INSTITUTE	New York	USAF	RDTE/Weapons-Advanced Development	8,698
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Weapons-Advanced Development	774
	AC53 (CONTINUED)				3,141

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION
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AC53 (CONTINUED)

CONTRACTOR TOTAL				
\$ SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	\$ 9,893
SCHAFFER W J ASSOCIATES INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	13,034
SCHOTT GLASS TECHNOLOGIES INC	Mass	USAF	RDTE/Weapons-Advanced Development	2,308
SCIENCE & ENGINEERING ASSOC	GERMANY, F	USAF	RDTE/Weapons-Advanced Development	7,425
SONALYSTS INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	780
SPECTRA DIODE LABORATORIES	Conn	NAVY	RDTE/Weapons-Advanced Development	133
SPECTRA TECHNOLOGY INC	California	USAF	RDTE/Weapons-Advanced Development	352
SRI INTERNATIONAL	Washington	USAF	RDTE/Weapons-Advanced Development	1,032
SRS TECHNOLOGIES	California	USAF	RDTE/Weapons-Advanced Development	216
TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Weapons-Advanced Development	126
TEXAS INSTRUMENTS INCORPORATED	Alabama	ARMY	RDTE/Weapons-Advanced Development	2,245
TEXTRON INC	Texas	USAF	RDTE/Weapons-Advanced Development	31-
THIOKOL CORPORATION	New York	USAF	RDTE/Weapons-Advanced Development	14,768
TRW INC	Utah	NAVY	RDTE/Weapons-Advanced Development	82
	California	ARMY	RDTE/Weapons-Advanced Development	85
		USAF	RDTE/Weapons-Advanced Development	750
			RDTE/Weapons-Advanced Development	28,729
			COUNTRY TOTAL	29,479
UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Weapons-Advanced Development	607
	Florida	USAF	RDTE/Weapons-Advanced Development	3,124
			CONTRACTOR TOTAL	3,731
UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Weapons-Advanced Development	1,332
UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Weapons-Advanced Development	500

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R&D CONTRACTOR NAME COUNTRY DEPT ----- R&D DESCRIPTION -----
AC53 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Advanced Development		492	
VARIAN ASSOCIATES INC	California	USAF	RDTE/Weapons-Advanced Development		50	
R&D TOTAL					349,977	
AC54 ANALYTIC SCIENCES CORP THE	Florida	USAF	RDTE/Weapons-Engineering Development		2,391	
ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development		2,460	
AVCO CORPORATION	Florida	USAF	RDTE/Weapons-Engineering Development		73	
CONTRACTOR TOTAL	Mass	USAF	RDTE/Weapons-Engineering Development		15,758	
BDM MANAGEMENT SERVICES CO	New Mexico	USAF	RDTE/Weapons-Engineering Development		15,831	
BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Engineering Development		6,706	
CHAMBERLAIN MANUFACTURING CORP	Iowa	NAVY	RDTE/Weapons-Engineering Development		413	
CONTRACTOR TOTAL	Maine	ARMY	RDTE/Weapons-Engineering Development		8,000	
CONTROL DATA CANADA LIMITED	Canada	ARMY	RDTE/Weapons-Engineering Development		100	
CONTROL DATA CORPORATION	Minnesota	NAVY	RDTE/Weapons-Engineering Development		8,100	
DYNAMAC CORPORATION	Maryland	NAVY	RDTE/Weapons-Engineering Development		1,045	
DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Weapons-Engineering Development		30	
EATON CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development		712	
GENCORP INC	California	NAVY	RDTE/Weapons-Engineering Development		200	
CONTRACTOR TOTAL	Florida	USAF	RDTE/Weapons-Engineering Development		202	
GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development		47	
GENERAL ELECTRIC CO	New York	NAVY	RDTE/Weapons-Engineering Development		186	
CONTRACTOR TOTAL					233	
					1,811	
					520	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC54 (CONTINUED)					
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Weapons-Engineering Development	\$ 2,800
	HARSCO CORPORATION	Penn	ARMY	RDTE/Weapons-Engineering Development	25,613
	HONEYWELL INC	California	NAVY	RDTE/Weapons-Engineering Development	2,151
		Minnesota	NAVY	RDTE/Weapons-Engineering Development	259,859
	CONTRACTOR TOTAL				262,010
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Weapons-Engineering Development	290,869
	KAMAN SCIENCES CORPORATION	California	USAF	RDTE/Weapons-Engineering Development	114
		New Mexico	USAF	RDTE/Weapons-Engineering Development	1,783
	CONTRACTOR TOTAL				1,897
	LEAR ASTRONICS CORP	California	USAF	RDTE/Weapons-Engineering Development	169
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Weapons-Engineering Development	239
	LORAL CORPORATION	Ohio	NAVY	RDTE/Weapons-Engineering Development	47,252
			USAF	RDTE/Weapons-Engineering Development	738
	COUNTRY TOTAL				47,990
	MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Weapons-Engineering Development	262
	MARTIN MARIETTA WESTNGHSE JV	Florida	ARMY	RDTE/Weapons-Engineering Development	11,405
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Engineering Development	51
	NATIONAL FORGE COMPANY	Penn	USAF	RDTE/Weapons-Engineering Development	121
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Weapons-Engineering Development	457
	PACER SYSTEMS INC	Florida	NAVY	RDTE/Weapons-Engineering Development	1,813
	RAM SYS GMBH	GERMANY, F	NAVY	RDTE/Weapons-Engineering Development	22,510
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Weapons-Engineering Development	201
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Weapons-Engineering Development	2,750

Prepared By: Washington Headquarters Services
Directorate for Information Operations and Reports

**DEPARTMENT OF DEFENSE
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		(AMOUNTS IN THOUSANDS)		R&D DESCRIPTION
R&D	CONTRACTOR NAME	COUNTRY	DEPT	
AC54 (CONTINUED)				
	STRESAU R LABORATORY INC	Wisconsin	NAVY	RDTE/Weapons-Engineering Development
	TECH REPS INCORPORATED	New Mexico	USAF	RDTE/Weapons-Engineering Development
	TECOLOTE RESEARCH INC	Virginia	NAVY	RDTE/Weapons-Engineering Development
	TRW INC	New Mexico	USAF	RDTE/Weapons-Engineering Development
	UNITED INTERNATIONAL ENRG	New Mexico	USAF	RDTE/Weapons-Engineering Development
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Engineering Development
	WESTINGHOUSE ELECTRIC CORP	Ohio	NAVY	RDTE/Weapons-Engineering Development
	WRIGHT MALTA CORP	New York	ARMY	RDTE/Weapons-Engineering Development
	R&D TOTAL			769,233
AC55				
	BAIRD CORPORATION	Mass	USAF	RDTE/Weapons-Operational Systems Developme
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Weapons-Operational Systems Developme
	BDM MANAGEMENT SERVICES CO	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	CADILLAC GAGE TEXTRON INC	Michigan	ARMY	RDTE/Weapons-Operational Systems Developme
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	COMTRA ENTERPRISES INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Weapons-Operational Systems Developme
	HONEYWELL INC	California	USAF	RDTE/Weapons-Operational Systems Developme
		New Mexico	ARMY	RDTE/Weapons-Operational Systems Developme
	CONTRACTOR TOTAL			816
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Weapons-Operational Systems Developme
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
				2,116

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-
AC55 (CONTINUED)				
	LOGICON INC	California	USAF	RDTE/Weapons-Operational Systems Developme
	MCDONNELL DOUGLAS ASTRONAUTICS	Florida	NAVY	RDTE/Weapons-Operational Systems Developme
		Missouri	NAVY	RDTE/Weapons-Operational Systems Developme
	CONTRACTOR TOTAL			2,600
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Operational Systems Developme
		New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	CONTRACTOR TOTAL			89
	OKLAHOMA STATE UNIVERSITY	Florida	USAF	RDTE/Weapons-Operational Systems Developme
	PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Weapons-Operational Systems Developme
	R & D ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Weapons-Operational Systems Developme
	ROCKWELL INTERNATIONAL CORP	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	TECH REPS INCORPORATED	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme
	R&D TOTAL			5,146
AC56	ADVANCED FUEL RESEARCH INC	Conn	USAF	RDTE/Weapons-Management & Support
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	USAF	RDTE/Weapons-Management & Support
	AMERICAN SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Weapons-Management & Support
	ANTRO-PIX CORPORATION	Texas	USAF	RDTE/Weapons-Management & Support
	BDM MANAGEMENT SERVICES CO	New Mexico	USAF	RDTE/Weapons-Management & Support
	BIO QUANTUM TECH	Texas	USAF	RDTE/Weapons-Management & Support
	R&D TOTAL			29,829

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC56 (CONTINUED)						
	BOEING COMPANY THE	Washington	USAF	RDTE / Weapons - Management & Support	215	
	CAMBRIDGE HYDRO-DYNAMICS INC	New Jersey	USAF	RDTE / Weapons - Management & Support	50	
	CEMCO ENGR	Florida	USAF	RDTE / Weapons - Management & Support	38	
	DELPHI RESEARCH INC	New Mexico	USAF	RDTE / Weapons - Management & Support	61	
	DESIGN ENGINEERING INC	New Mexico	USAF	RDTE / Weapons - Management & Support	200	
	DISPLAYTECH INC	Colorado	USAF	RDTE / Weapons - Management & Support	125	
	G T DEVICES INC	Virginia	NAVY	RDTE / Weapons - Management & Support	48	
	I A P RESEARCH INC	Ohio	USAF	RDTE / Weapons - Management & Support	483	
	INTERSPEC INC	Penn	USAF	RDTE / Weapons - Management & Support	50	
	KTECH CORPORATION	New Mexico	USAF	RDTE / Weapons - Management & Support	73	
	LOGICON INC	California	USAF	RDTE / Weapons - Management & Support	372	
	MACDONALD CONSULTING	California	USAF	RDTE / Weapons - Management & Support	32	
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE / Weapons - Management & Support	227	
	MERIDIAN CORPORATION	Virginia	USAF	RDTE / Weapons - Management & Support	111	
	MERIT TECHNOLOGY INC	Texas	USAF	RDTE / Weapons - Management & Support	46	
	MILLITECH CORPORATION	Mass	USAF	RDTE / Weapons - Management & Support	51	
	MISSION RESEARCH CORPORATION	California	USAF	RDTE / Weapons - Management & Support	50	
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE / Weapons - Management & Support	51	
	PHOTOMETRICS INC	Mass	USAF	RDTE / Weapons - Management & Support	50	
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE / Weapons - Management & Support	101	
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE / Weapons - Management & Support	90	
	POWER SPECTRUM ELC ENGR	California	USAF	RDTE / Weapons - Management & Support	55	
	SCIENCE RESEARCH LABORATORY	Mass	USAF	RDTE / Weapons - Management & Support	49	

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(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT - R&D DESCRIPTION

AC56 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	- R&D DESCRIPTION		\$	
SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Weapons-Management & Support			63	
SPARTA INC	California	USAF	RDTE/Weapons-Management & Support			48	
SPECTRAN CORPORATION	Mass	USAF	RDTE/Weapons-Management & Support			34	
STATCON INC	Maryland	USAF	RDTE/Weapons-Management & Support			67	
TALANDIC RESEARCH CORPORATION	Arizona	USAF	RDTE/Weapons-Management & Support			59	
TRACOR APPLIED SCIENCES INC	California	NAVY	RDTE/Weapons-Management & Support			197	
UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Management & Support			100	
VITRO CORPORATION	Maine	NAVY	RDTE/Weapons-Management & Support			1,445	
Maryland	NAVY	RDTE/Weapons-Management & Support				300	
Miss	NAVY	RDTE/Weapons-Management & Support				854	
New Jersey	NAVY	RDTE/Weapons-Management & Support				102	
Virginia	NAVY	RDTE/Weapons-Management & Support				6,053	
CONTRACTOR TOTAL						8,754	
VOSS SCIENTIFIC	New Mexico	USAF	RDTE/Weapons-Management & Support			59	
R&D TOTAL						13,841	
AC61 A T & T TECHNOLOGIES INC	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Easic			11,442	
ABIOMED INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic			95	
ADVANCED FIBEROPTICS CORP	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic			238	
ADVANCED OPTICAL SYSTEM	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic			50	
ADVANCED TECHNOLOGY SYSTEMS	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic			50	
AMHERST SYSTEMS INC	New York	USAF	RDTE/Electronics & Communication Eq-Basic			578	
ANACAPA SCIENCES INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic			250	
ANALYTIC SCIENCES CORP THE	Mass	USAF	RDTE/Electronics & Communication Eq-Basic			50	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION	AMOUNTS IN THOUSANDS)
AC61 (CONTINUED)					
ANALYTICS INCORPORATED	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	\$ 281	281
ARKADY ASSOCIATES	California	ARMY	RDTE/Electronics & Communication Eq-Basic	257	257
ATLANTIC AEROSPACE ELECTRONICS	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	3,962	3,962
AVCO RESEARCH LABORATORY INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	196	196
	NAVY	RDTE/Electronics & Communication Eq-Basic	1,403	1,403	
	USAF	RDTE/Electronics & Communication Eq-Basic	200	200	
	COUNTRY TOTAL			1,799	
AVTEC SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	250	250
BALL COMMUNICATION SYSTEMS	Colorado	NAVY	RDTE/Electronics & Communication Eq-Basic	385	385
BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	2,224	2,224
BELL COMMUNICATIONS RESEARCH	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	275	275
BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	222	222
BUSINESS TECHNOLOGICAL SYSTEMS	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	232	232
C E OPERATIONS & MAINT SVC INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic	3,733	3,733
CALIFORNIA INST OF TECHNOLOGY	California	NAVY	RDTE/Electronics & Communication Eq-Basic	150	150
COMMAND SYSTEMS GROUP INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	220	220
COMMONWEALTH TECHNOLOGY INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	118	118
COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Basic	175	175
CONSOLVE INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	49	49
COPROCESSOR CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	176	176
DATA SYSTEMS ANALYSTS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	52	52
DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	239	239
DEFENSE GROUP INC THE	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	50	50
DIGITAL FANTASIES LTD	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	50	50

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R&D CONTRACTOR NAME COUNTRY DEPT R&D DESCRIPTION
AC61 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
DYMAFLOW INC		Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	\$ 404
DYNAMIC ANALYSIS & TEST ASSOC		California	USAF	RDTE/Electronics & Communication Eq-Basic	45
E SYSTEMS INC		Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	442
EG&G INC		Nevada	USAF	RDTE/Electronics & Communication Eq-Basic	2,034
ELECTRO RADIATION INC		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	214
		USAF		RDTE/Electronics & Communication Eq-Basic	48
		COUNTRY TOTAL			262
ELECTRONIC DECISIONS INC		Illinois	USAF	RDTE/Electronics & Communication Eq-Basic	47
ENERGY COMPRESSION RES CORP		California	ARMY	RDTE/Electronics & Communication Eq-Basic	50
FAIRCHILD INDUSTRIES INC		D.C.	NAVY	RDTE/Electronics & Communication Eq-Basic	390
FERMIONICS CORPORATION		California	ARMY	RDTE/Electronics & Communication Eq-Basic	477
FIBERTEK INC		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	687
		NAVY		RDTE/Electronics & Communication Eq-Basic	185
		COUNTRY TOTAL			872
FLOW INDUSTRIES INC		Washington	NAVY	RDTE/Electronics & Communication Eq-Basic	86
FOSTER MILLER INC		Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	50
GENERAL DYNAMICS CORPORATION		Texas	USAF	RDTE/Electronics & Communication Eq-Basic	
GENERAL SCIENCES INC		Penn	NAVY	RDTE/Electronics & Communication Eq-Basic	170
HUGHES AIRCRAFT COMPANY		California	ARMY	RDTE/Electronics & Communication Eq-Basic	1,002
		NAVY		RDTE/Electronics & Communication Eq-Basic	2,934
		USAF		RDTE/Electronics & Communication Eq-Basic	1,500
		COUNTRY TOTAL			5,436
II-VI INCORPORATED		Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	133
INFORMATION SYSTEMS LABS		Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	558
INTER NATIONAL RES INSTITUTE		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	1,500

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION
AC61 (CONTINUED)					

INTERSTATE ELECTRONICS CORP	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic	\$ 50
IOWA STATE UNIV SCNC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	150
IRI INTERNATIONAL CORPORATION	Iowa	ARMY	RDTE/Electronics & Communication Eq-Basic	74
ITT CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	100
	Indiana	ARMY	RDTE/Electronics & Communication Eq-Basic	500
	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Basic	211
				711
ITT GILFILLAN	California	NAVY	RDTE/Electronics & Communication Eq-Basic	200
KOFORD ENGINEERING	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	71
L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Electronics & Communication Eq-Basic	239
L J F CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	188
MAC AULAY BROWN INC	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	218
MAGNAVOX GOVT & INDSTRL ELCTR	Indiana	USAF	RDTE/Electronics & Communication Eq-Basic	9,039
MALIBU RESEARCH ASSOCIATES	California	ARMY	RDTE/Electronics & Communication Eq-Basic	227
MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	248
	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	338
				586
MEASUREMENT CONCEPT CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	50
MEGAPELS INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	25
MICROTRONICS ASSOCIATES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	179
MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	305
NAVSYS CORP	Colorado	USAF	RDTE/Electronics & Communication Eq-Basic	199
NORTHROP CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Basic	294

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R&D
CONTRACTOR NAME
AC61 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
CONTRACTOR TOTAL						
OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic		345	
OHIO UNIVERSITY	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic		639	
OREGON GRAD CNTR STUCY RESERCH	Oregon	NAVY	RDTE/Electronics & Communication Eq-Basic		116	
ORTEL CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic		300	
PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic		200	
PROGRAMMING ENVIRONMENTS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic		220	
PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Electronics & Communication Eq-Basic		37	
QUALCOMM INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic		286	
		USAF	RDTE/Electronics & Communication Eq-Basic		39	
			RDTE/Electronics & Communication Eq-Basic		52	
			RDTE/Electronics & Communication Eq-Basic		190	
COUNTRY TOTAL						
RACAL COMMUNICATIONS INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Basic		242	
RADIATION MONITORING DEVICES	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic		10,000	
RALCON	Utah	ARMY	RDTE/Electronics & Communication Eq-Basic		259	
RAYTHEON COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Basic		241	
	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic		85	
			RDTE/Electronics & Communication Eq-Basic		17,991	
CONTRACTOR TOTAL						
ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Electronics & Communication Eq-Basic		18-	
	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic		18,076	
CONTRACTOR TOTAL						
SAN DIEGO SEMICONDUCTORS INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic		1,731	
SANDERS ASSOCIATES INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Basic		1,713	
			RDTE/Electronics & Communication Eq-Basic		399	
			RDTE/Electronics & Communication Eq-Basic		175	

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R&D CONTRACTOR NAME COUNTRY DEPT -----R&D DESCRIPTION-----
 AC61 (CONTINUED)

CONTRACTOR TOTAL		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	\$ 21,144
SCHWARTZ ELECTRO-OPTICS INC		Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	21,319
Mass		Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	70
CONTRACTOR TOTAL					248
SCIENCE APPLICATIONS INTL CORP		California	NAVY	RDTE/Electronics & Communication Eq-Basic	318
Hawaii		Hawaii	NAVY	RDTE/Electronics & Communication Eq-Basic	385
Virginia		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	48
CONTRACTOR TOTAL					429
SCIENTIFIC RESEARCH ASSOC INC		Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	862
SCOPE INCORPORATED		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	50
SIGNAL ANALYTICS		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	251
SOFTWARE PRODUCTIVITY SOLUTIONS		Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	50
SONEX ENTERPRISES INC		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	231
SOURCE TEK INC		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	498
SPARTA INC		California	ARMY	RDTE/Electronics & Communication Eq-Basic	50
COUNTRY TOTAL		NAVY	RDTE/Electronics & Communication Eq-Basic	109	
					94
CONTRACTOR TOTAL					203
SPECTRA TECHNOLOGY INC		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	999
SPIRE CORPORATION		Washington	NAVY	RDTE/Electronics & Communication Eq-Basic	1,202
SRI INTERNATIONAL		Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	167
		California	NAVY	RDTE/Electronics & Communication Eq-Basic	357
					523

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	50
AC61 (CONTINUED)						
	STRUCTURED SYS & SOFTWARE	California	USA	RDTE/Electronics & Communication Eq-Basic		
	SUPERCONDUCTOR TECHNOLOGIES	California	ARMY	RDTE/Electronics & Communication Eq-Basic		49
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic		128
	SYSTEM DYNAMICS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	50	
	TRI TESSCO	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic		340
	TRUSTED INFORMATION SYSTEMS	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic		1,080
	TRW INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	621	
	U F A INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic		52
	UNISYS CORPORATION	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Basic		110
	UNIVERSITY OF COLORADO	Colorado	NAVY	RDTE/Electronics & Communication Eq-Basic		225
	UNIVERSITY OF DELAWARE	Delaware	NAVY	RDTE/Electronics & Communication Eq-Basic		382
	UNIVERSITY OF FLORIDA	Florida	NAVY	RDTE/Electronics & Communication Eq-Basic		56
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic		140
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Electronics & Communication Eq-Basic		105
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Electronics & Communication Eq-Basic	4,577	
	UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic		18,904
	UNIVERSITY OF VIRGINIA	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic		129
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Electronics & Communication Eq-Basic		10,896
	VANCE SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic		52
	VISTA RESEARCH CORPORATION	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic		187
	VITRONICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic		4,812
	WALLACE T H INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic		208
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic		160

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION
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(AMOUNTS IN THOUSANDS)

AC61 (CONTINUED)

R&D TOTAL	XEROX CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Basic	\$ 250
AC62 ADAPTIVE DIGITAL SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	46	
ADROIT SYSTEMS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	200	
ADVEC CORP	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Explor	100	
AFL INDUSTRIES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	55	
AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	135	
AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	437	
ALLIED SIGNAL INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	380	
AMPEX CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	75	
ANALYTIC SCIENCES CORP THE	Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	273	
ANALYTICAL SYSTEMS ENGRG CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	392	
ANALYTICS INCORPORATED	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	1,182	
APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	1,274	
APPLIED SOLAR ENERGY CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	524	
ARETE ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Explor	831	
ATLANTIC AEROSPACE ELECTRONICS	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	60	
ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	245	
BALL CORPORATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Explor	150	
CONTRACTOR TOTAL	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	250	
BATTERY INTERNATIONAL INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	400	
		NAVY	RDTE/Electronics & Communication Eq-Explor	242	
				517	

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D

CONTRACTOR NAME

COUNTRY

DEPT

R&D DESCRIPTION

AC62 (CONTINUED)

		COUNTRY TOTAL		\$	
R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explorer	759
	BELTRAN ASSOCIATES INC	New York	NAVY	RDTE/Electronics & Communication Eq-Explorer	742
	BOEING COMPANY THE	Washington	USAF	RDTE/Electronics & Communication Eq-Explorer	50
	BOLT BERANEK & NEWMAN INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Explorer	2,655
	Mass	Mass	ARMY	RDTE/Electronics & Communication Eq-Explorer	200
	CONTRACTOR TOTAL				7,773
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explorer	105
	BRIDGEPORT MACHINES INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Explorer	78
	C E OPERATIONS & MAINT SVC INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Explorer	192
	CAD LANGUAGE SYSTEMS INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explorer	273
	CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Electronics & Communication Eq-Explorer	153
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Electronics & Communication Eq-Explorer	1,486
		USAF	RDTE/Electronics & Communication Eq-Explorer		1,435
	COUNTRY TOTAL				1,921
	CENTURY COMPUTING INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explorer	95
	CHANG INDUSTRY INC	California	ARMY	RDTE/Electronics & Communication Eq-Explorer	80
	CHIRP CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explorer	50
	CLS LASER SYSTEMS INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Explorer	310
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Electronics & Communication Eq-Explorer	550
	COMMUNICONS TECHNOLOGY APPLCNS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explorer	49
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explorer	1,088
	CONTRAVES GOERZ CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explorer	196

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	34
AC62 (CONTINUED)						
	CONVEX COMPUTER CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor		
	CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor		139
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor		391
	DCS CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor		50
	DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor		100
	DEFENSE GROUP INC THE	California	NAVY	RDTE/Electronics & Communication Eq-Explor		49
	DIGITAL RADIO CORP	California	ARMY	RDTE/Electronics & Communication Eq-Explor	602	
			NAVY	RDTE/Electronics & Communication Eq-Explor	148	
		COUNTRY TOTAL			750	
	DIGITAL SYSTEMS GROUP INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor		160
	DIGITAL TECHNOLOGY INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor		172
	DISPLAYTECH INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explor		148
	DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor		90
	DREXEL UNIVERSITY	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor		98
	DYNAMIC MEASUREMENTS CO	Alabama	ARMY	RDTE/Electronics & Communication Eq-Explor		65
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Electronics & Communication Eq-Explor		159
	DYNCORP	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor		151
	E I C LABORATORY INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor		404
	E OIR MEASUREMENTS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor		716
	ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Explor		507
	EG&G INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor		48
	ELECTROMAGNETIC SCIENCES INC	Georgia	NAVY	RDTE/Electronics & Communication Eq-Explor		867
	ENCORE COMPUTER CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor		609

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	\$ 1,210
	EPITAXX INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	40
	ESL INCORPORATED	California	NAVY	RDTE/Electronics & Communication Eq-Explor	2,060
	ESSCUBE ENGINEERING INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	390
	F & H APPLIED SCIENCES ASSOC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	FIBERTEK INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	1,212
		NAVY	NAVY	RDTE/Electronics & Communication Eq-Explor	1,875
		COUNTRY TOTAL			3,087
	FREQUENCY ELECTRONICS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	75
	FUSION SYSTEMS CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	49
	GENERAL ATOMICS	California	ARMY	RDTE/Electronics & Communication Eq-Explor	153
	GENERAL ELECTRIC CO	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	261
		NAVY	NAVY	RDTE/Electronics & Communication Eq-Explor	100
		COUNTRY TOTAL			361
		New York	ARMY	RDTE/Electronics & Communication Eq-Explor	175
			NAVY	RDTE/Electronics & Communication Eq-Explor	1,200
			USAF	RDTE/Electronics & Communication Eq-Explor	2,175
		COUNTRY TOTAL			3,550
		Ohio	NAVY	RDTE/Electronics & Communication Eq-Explor	167
		CONTRACTOR TOTAL			4,078
	GENERAL ELECTRONIC SYSTEMS	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	GENERAL TECHNICAL SERVICES	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	210
	GEO CENTERS INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	459
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Electronics & Communication Eq-Explor	2,126
		NAVY	NAVY	RDTE/Electronics & Communication Eq-Explor	85

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(AMOUNTS IN THOUSANDS)

R&D

CONTRACTOR NAME

COUNTRY

DEPT

R&D DESCRIPTION

AC62 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	COUNTRY TOTAL	USAF	RDTE/Electronics & Communication Eq-Explorer	\$	158
GRUMMAN AEROSPACE CORPORATION		New York	USAF	RDTE/Electronics & Communication Eq-Explorer	2,369				
GTE GOVERNMENT SYSTEMS CORP		California	NAVY	RDTE/Electronics & Communication Eq-Explorer	441				
HARRIS CORPORATION		Mass	ARMY	RDTE/Electronics & Communication Eq-Explorer	2,215				
HAZELTINE CORPORATION		Florida	ARMY	RDTE/Electronics & Communication Eq-Explorer	1,160				
HARTMANN RESEARCH INC		New York	ARMY	RDTE/Electronics & Communication Eq-Explorer	400				
HECHT NIELSEN NEUROCOMPUTER		Texas	ARMY	RDTE/Electronics & Communication Eq-Explorer	1,560				
HONEYWELL INC		New York	ARMY NAVY	RDTE/Electronics & Communication Eq-Explorer RDTE/Electronics & Communication Eq-Explorer	149				
HORRIGAN ANALYTICS		California	ARMY	RDTE/Electronics & Communication Eq-Explorer	50				
HUGHES AIRCRAFT COMPANY		Minnesota	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Explorer RDTE/Electronics & Communication Eq-Explorer RDTE/Electronics & Communication Eq-Explorer	223				
ILLINOIS		Illinois	ARMY	RDTE/Electronics & Communication Eq-Explorer	273				
CONTRACTOR TOTAL		California	ARMY	RDTE/Electronics & Communication Eq-Explorer	40				
HAZELTINE CORPORATION		Minnesota	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Explorer RDTE/Electronics & Communication Eq-Explorer RDTE/Electronics & Communication Eq-Explorer	350				
HONEYWELL INC		Penn	ARMY	RDTE/Electronics & Communication Eq-Explorer	3,302				
HORRIGAN ANALYTICS		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explorer	195				
HUGHES AIRCRAFT COMPANY		Penn	ARMY	RDTE/Electronics & Communication Eq-Explorer	245				
ILLINOIS		Illinois	ARMY	RDTE/Electronics & Communication Eq-Explorer	3,742				
CONTRACTOR TOTAL		California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Explorer RDTE/Electronics & Communication Eq-Explorer RDTE/Electronics & Communication Eq-Explorer	316				
HORRIGAN ANALYTICS		Virginia	NAVY	RDTE/Electronics & Communication Eq-Explorer	6,475				
HUGHES AIRCRAFT COMPANY		Virginia	NAVY	RDTE/Electronics & Communication Eq-Explorer	9,139				
ILLINOIS					117				

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME
- COUNTRY DEPT - R&D DESCRIPTION
- - - -

AC62 (CONTINUED)

CONTRACTOR TOTAL

HYCOM INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Explor	\$ 9,256
I MATH ASSOCIATES INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	32
INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	50
INTELLIGENT SYSTEMS DESIGN	Washington	NAVY	RDTE/Electronics & Communication Eq-Explor	471
INTERNATIONAL BUS MCHS CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	479
	NAVY	RDTE/Electronics & Communication Eq-Explor	1,328	
			800	
COUNTRY TOTAL				2,128
INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	330
INTERSPEC INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	374
ITT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	814
	NAVY	RDTE/Electronics & Communication Eq-Explor	890	
	USAF	RDTE/Electronics & Communication Eq-Explor	100	
COUNTRY TOTAL				1,804
J & D SCIENTIFIC INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	300
J R S RESEARCH LABORATORIES	Arizona	NAVY	RDTE/Electronics & Communication Eq-Explor	2,104
K M S FUSION INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	242
KAMAN SCIENCES CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Explor	40
KEYSTONE COMPUTER ASSOCIATES	Colorado	ARMY	RDTE/Electronics & Communication Eq-Explor	200
L N K CORPORATION	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Explor	30
L N R COMMUNICATIONS INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	128
LASER SYSTEMS LABORATORY	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	498
	California	NAVY	RDTE/Electronics & Communication Eq-Explor	40
				3,095

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(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT ----- R&D DESCRIPTION
 AC62 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
LITTON INDUSTRIES INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Explor		105	
LOCKHEED CORPORATION	N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor		2,315	
LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Electronics & Communication Eq-Explor		450	
LOCUS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor		1,327	
LOGICON INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor		196	
LOS ALAMOS TECHNICAL ASSOC INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Explor		4,065	
LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor		270	
M T L SYSTEMS INC	Ohio	NAVY	RDTE/Electronics & Communication Eq-Explor		49	
MAGNAVOX GOVT & INDSTRL ELCTR	California	ARMY	RDTE/Electronics & Communication Eq-Explor		673	
	Indiana	NAVY	RDTE/Electronics & Communication Eq-Explor		650	
CONTRACTOR TOTAL					1,323	
MANATECH ASSOCIATES	Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor		39	
MARTIN MARIETTA CORPORATION	Florida	ARMY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	150	10,961	
COUNTRY TOTAL					11,111	
MAXWELL LABORATORIES INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor		783	
MAYFLOWER COMMUNICATION CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor		197	
MC DONNELL DOUGLAS CORPORATION	Missouri	NAVY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor		1,686	
COUNTRY TOTAL					1,110	
MEASUREMENT CONCEPTS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor		2,796	
METRATEK INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor		258	
METRON CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor		50	
MICRODYNE CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor		74	
					46	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC62 (CONTINUED)						
	MICROTRONICS ASSOCIATES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	\$ 164	
	MILLITECH CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	244	
	MSNW INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	462	
	MYK TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	244	
	NATION INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	1,147	
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Explor	296	
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Electronics & Communication Eq-Explor	702	
	NOISE COM INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	40	
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Explor	83	
	NORTH EAST SEMICONDUCTOR INC	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	265	
	NORTHROP CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	424	
	OPTIVISION INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	595	
	OPTRON SYSTEMS INC	Mass	NAVY LSAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	75 100	
	COUNTRY TOTAL				175	
	ORINCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,851	
	P C O INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	62	
	P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	50	
	PACIFIC MONOLITHICS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	80	
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	924	
	PENN COMPUTER ASSOCIATES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	72	
	PENNWALT CORPORATION	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	102	
	PERKIN ELMER CORPORATION	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	2,300	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	51
	PINZO SONA TOOL CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	188
	PIEZO TECHNOLOGY INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	231
	PLANAR SYSTEMS INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	1,239
	POLHEMUS NVGTM SCNC INC	Vermont	NAVY	RDTE/Electronics & Communication Eq-Explor	538
	PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	1,041
	Q S D INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	501
	QUALCOMM INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	46
	QUANSCAN INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	101
	QUEST RESEARCH CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	500
	RAYO 'AC CORPORATION	Wisconsin	ARMY	RDTE/Electronics & Communication Eq-Explor	619
	RAYTHEON COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Explor	121
	Mass	ARMY USAF	RDTE/Electronics & Communication Eq-Explor	372	
		RDTE/Electronics & Communication Eq-Explor	2,572		
	COUNTRY TOTAL				2,944
	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Explor	411	
	CONTRACTOR TOTAL				3,476
	RESEARCH OPPORTUNITIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	240
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Explor	32
	ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	67 267 522
		COUNTRY TOTAL			856
	Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	41-	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
CONTRACTOR TOTAL						
	ROME RESEARCH CORP	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	815	
	S C S TELECOM INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	175	
	S S G INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	119	
	SANDERS ASSOCIATES INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Explor	50	
		NAVY	RDTE/Electronics & Communication Eq-Explor	50		
COUNTRY TOTAL						
	SCIENCE & ENGINEERING ASSOC	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Explor	1,623	
	SCIENCE APPLICATIONS INT'L CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	131	
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	750	
CONTRACTOR TOTAL						
	SCIENTIFIC ENGINEERING INSTRS	Nevada	NAVY	RDTE/Electronics & Communication Eq-Explor	579	
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	460	
	SCOPE INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	244	
	SEAY THOMAS S INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	47	
	SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	50	
	SIERRA NEVADA CORPORATION	Nevada	ARMY	RDTE/Electronics & Communication Eq-Explor	1,329	
	SIGPRO SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	480	
	SILTRONIX INC	Calif. - N.J.a	NAVY	RDTE/Electronics & Communication Eq-Explor	71	
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	48	
	SONE TECH CORPORATION	N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	250	
	SOUTHEASTN CTR ELECTR ENG ED	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	50	
	SPACE COMPUTER CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	212	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION
AC62 (CONTINUED)				

SPARTA INC	California	NAVY	RDTE/Electronics & Communication Eq-Explorer	\$ 900
SPARTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Explorer	904
SPECTRA DIODE LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Explorer	555
SPIRE CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explorer	1,000
SRI INTERNATIONAL	California	ARMY USAF	RDTE/Electronics & Communication Eq-Explorer RDTE/Electronics & Communication Eq-Explorer	4,445 100
COUNTRY TOTAL 4,545				
STANFORD ISLAND JUNIOR UNIV	California	ARMY	RDTE/Electronics & Communication Eq-Explorer	1,090
STAR MICROWAVE	California	ARMY	RDTE/Electronics & Communication Eq-Explorer	325
SWEET ASSOCIATES LTD	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explorer	50
SYSTEMS EXPLORATION INC	California	NAVY	RDTE/Electronics & Communication Eq-Explorer	1,174
T S C INC	California	USAF	RDTE/Electronics & Communication Eq-Explorer	337
TACAN CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explorer	40
TEAM CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explorer	52
TEKTRONIX INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Explorer	587
Oregon	NAVY	RDTE/Electronics & Communication Eq-Explorer	89	
CONTRACTOR TOTAL 676				
TELECOMMUNICATION SCIENCE ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Explorer	3,281
TENCO SERVICES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explorer	51
TESSERA RESEARCH CORP	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explorer	98
TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Electronics & Communication Eq-Explorer	1,400
TEXAS INSTRUMENTS ASIA LIMITED	Texas	NAVY	RDTE/Electronics & Communication Eq-Explorer	645
TEXAS INSTRUMENTS INCORPORATED	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explorer	33

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D
CONTRACTOR NAME
AC62 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
	CONTRACTOR TOTAL			RDTE/Electronics & Communication Eq-Explorer		
TEXCOM INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explorer		3,445	3,478
THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explorer		253	
TIL DEFENSE SYS CNSLT INC	ISRAEL	ARMY	RDTE/Electronics & Communication Eq-Explorer		4,608	
TITAN SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Explorer		98	
TRACOR AEROSPACE INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Explorer		563	
TRACTELL INC	Ohio	ARMY	RDTE/Electronics & Communication Eq-Explorer		48	
TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explorer		40	
TRW INC	California	ARMY NAVY	RDTE/Electronics & Communication Eq-Explorer RDTE/Electronics & Communication Eq-Explorer		50	
	COUNTRY TOTAL				14,927	
	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explorer		1,503	
	CONTRACTOR TOTAL			RDTE/Electronics & Communication Eq-Explorer	16,430	
TRYMER COMPANY THE	Texas	NAVY	RDTE/Electronics & Communication Eq-Explorer		580	
UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Explorer		50	
	Florida	NAVY	RDTE/Electronics & Communication Eq-Explorer		118	
	CONTRACTOR TOTAL			RDTE/Electronics & Communication Eq-Explorer	211	
UNIVERSITY OF ALABAMA	Alabama	USAF	RDTE/Electronics & Communication Eq-Explorer		329	
UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Electronics & Communication Eq-Explorer		205	
UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Electronics & Communication Eq-Explorer		119	
UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explorer		345	
UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Electronics & Communication Eq-Explorer		138	
	CONTRACTOR TOTAL			RDTE/Electronics & Communication Eq-Explorer	40	

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT R&D DESCRIPTION

AC62 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		
	V L S I TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	\$ 3,298	3,298
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	528	528
		NAVY	RDTE/Electronics & Communication Eq-Explor	662	662	
					185	185
	VENTANA SCIENCES INC	COUNTRY TOTAL			847	
		California	NAVY	RDTE/Electronics & Communication Eq-Explor	160	
		California	NAVY	RDTE/Electronics & Communication Eq-Explor	90	
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	2,938	
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	12,135	
			USAF	RDTE/Electronics & Communication Eq-Explor	3,674	
		COUNTRY TOTAL			15,809	
	WHITTAKER TECHNICAL PRODUCTS	Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	37	
	XMC0 INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	161	
	R&D TOTAL				16,007	
AC63	A T & T TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	180	
		N Carolina	NAVY	RDTE/Electronics & Communication Eq-Explor	40	
			USAF	RDTE/Electronics & Communication Eq-Explor	40	
		COUNTRY TOTAL			191,502	
		Penn	USAF	RDTE/Electronics & Communication Eq-Advanc	1,179	
				RDTE/Electronics & Communication Eq-Advanc	60,346	
				RDTE/Electronics & Communication Eq-Advanc	700	
					61,046	
	CONTRACTOR TOTAL				1,264	
	ABACUS TECH CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	63,489	
					100	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC63 (CONTINUED)						
	ADVANCED COMMUNICATIONS SYSTEMS	Virginia	NAVY	RDTE/Electronics & Communication Eq-Advanc		49
	ADVANCED DECISION SYSTEMS	California	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc		2,239
				COUNTRY TOTAL		197
	ADVANCED PROJECTS RESEARCH INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc		2,436
	ALCOA DEFENSE SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc		53
	ALLIED SIGNAL AEROSPACE CO	Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc		707
	AMBER ENGINEERING INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc		2,014
	ANALYTIC SCIENCES CORP THE	Mass	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc		236
				COUNTRY TOTAL		6,480
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc		761
				CONTRACTOR TOTAL		7,241
	ANALYTICS INCORPORATED	Penn	ARMY	RDTE/Electronics & Communication Eq-Advanc		748
	ANRITSU AMERICA INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Advanc		7,989
	ARINC RESEARCH CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc		99
	ATLANTIC AEROSPACE ELECTRONICS	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc		28
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc		2,091
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc		185
				CONTRACTOR TOTAL		71
	AUTOMETRIC INC	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc		262
	BALL CORPORATION	Colorad	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc		333
				COUNTRY TOTAL		101
						227
						86
						313

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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R&D		CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION	
AC63 (CONTINUED)							
		CONTRACTOR TOTAL	Ohio	USAF	\$ 190	RDTE/Electronics & Communication Eq-Advanc	503
		BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	· 08	
		BOEING COMPANY THE	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	299	
			Kansas	USAF	RDTE/Electronics & Communication Eq-Advanc	2,185	
			Washington	USAF	RDTE/Electronics & Communication Eq-Advanc	1,725	
		CONTRACTOR TOTAL	Maryland	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	4,209	
			COUNTRY TOTAL				549
		BRUNSWICK CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	546	
		C M ENGINEERING CO	New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	413	
		CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	1,042	
		COHERENT TECHNOLOGIES INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Advanc	201	
		COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	217	
		COMPUSEC INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	324	
		COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	3,276	
		COMPUTER SOFTWARE ANALYSTS	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	271	
		DARTMOUTH COLLEGE	N.H.	USAF	RDTE/Electronics & Communication Eq-Advanc	62	
		DATASONICS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	263	
		DAVID SARNOFF RESEARCH CENTER	California	USAF	RDTE/Electronics & Communication Eq-Advanc	1,273	
		DBA SYSTEMS INC	Florida	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	2,192 75	
		CONTRACTOR TOTAL	Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	2,267	
		DCS CORPORATION				422	

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC63 (CONTINUED)						
	DELFIN SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Advanc		521
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	\$	3,641
	E OIR MEASUREMENTS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc		182
	E SYSTEMS INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc		13,487
	EATON CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc		250
	EDAL INDUSTRIES INCORPORATED	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc		143
	EG&G INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc		95
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc		120
	ENVIRONMENTAL RESEARCH	Michigan	USAF	RDTE/Electronics & Communication Eq-Advanc		3,096
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Advanc		855
	ETM ELECTROMATIC INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc		175
	FLAM & RUSSELL INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Advanc		500
	FORD AEROSPACE COMMCTIONS CORP	Ca.ifornia	USAF	RDTE/Electronics & Communication Eq-Advanc		344
	G E C AVIONICS LTD	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc		247
	GATEWAY MODELING INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc		70
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc		7,939
		Texas	USAF	RDTE/Electronics & Communication Eq-Advanc		381
	CONTRACTOR TOTAL					8,320
	GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc		252--
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc		1,286
		New York	ARMY	RDTE/Electronics & Communication Eq-Advanc		1,250
			NAVY	RDTE/Electronics & Communication Eq-Advanc		22,843
			USAF	RDTE/Electronics & Communication Eq-Advanc		18,526
	COUNTRY TOTAL					42,619

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC63 (CONTINUED)						
	CONTRACTOR TOTAL					
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	43,653	
		Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	147	
	CONTRACTOR TOTAL				83	
	GENERAL SIGNAL CORPORATION	Maine	USAF	RDTE/Electronics & Communication Eq-Advanc	230	
	GEOGRAPHY TECH RESEARCH INST	Georgia	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	278 1,235 3,594	
	CONTRACTOR TOTAL				4,829	
	GOULD INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc		
		Ohio	NAVY	RDTE/Electronics & Communication Eq-Advanc	1,740	
	CONTRACTOR TOTAL				39	
	GROTON ASSOCIATES	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	1,779	
	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	63	
	H J FORD	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	250	
	HARRIS CORPORATION	Florida	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	220 350 1,252	
	CONTRACTOR TOTAL				1,602	
	HAZELTINE CORPORATION	New York	ARMY NAVY	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	4,250	
	CONTRACTOR TOTAL				5,099	
	HONEYWELL INC	Arizona	USAF	RDTE/Electronics & Communication Eq-Advanc	93	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC63 (CONTINUED)					
	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	\$ 6,104	
	Mass	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	577 2,032	
	COUNTRY TOTAL			2,609	
	Minnesota	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	1,298 7,616	
	COUNTRY TOTAL			8,914	
	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Advanc	2,300	
	CONTRACTOR TOTAL			20,020	
	California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Advanc ROUTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	12,934 9,670 25,416	
	COUNTRY TOTAL			48,020	
	New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	519	
	CONTRACTOR TOTAL			48,539	
	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	323	
	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	3'	
	California	USAF	RDTE/Electronics & Communication Eq-Advanc	5,697	
	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	312	
	Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	1,093	
	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	19,828	
	California	USAF	RDTE/Electronics & Communication Eq-Advanc	700	
	New Jersey	USAF	RDTE/Electronics & Communication Eq-Advanc	220	
	Ohio	USAF	ROUTE/Electronics & Communication Eq-Advanc	757	
	CONTRACTOR TOTAL			977	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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R&C	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	(AMOUNTS IN THOUSANDS)
AC63 (CONTINUED)					
JAYCOR	D.C.	NAVY	RDTE/Electronics & Communication Eq-Advanc	\$ 79	
LITTON SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	715	
	Conn	ARMY	RDTE/Electronics & Communication Eq-Advanc	260	
		USAF	RDTE/Electronics & Communication Eq-Advanc	150	
	COUNTRY TOTAL			410	
	CONTRACTOR TOTAL			1,125	
LOCKHEED CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	400	
	Georgia	NAVY	RDTE/Electronics & Communication Eq-Advanc	300	
	CONTRACTOR TOTAL			700	
LOCKHEED ELECTRONICS CO	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	355	
		USAF	RDTE/Electronics & Communication Eq-Advanc	590	
	COUNTRY TOTAL			945	
LORAL CORPORATION	Arizona	USAF	RDTE/Electronics & Communication Eq-Advanc	533	
		USAF	RDTE/Electronics & Communication Eq-Advanc	4,794	
	CONTRACTOR TOTAL			5,327	
LORAL ELECTRO OPTICAL SYSTEMS	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	45	
LORAL ELECTRONIC SYSTEMS	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	200	
LTV AEROSPACE & DEF CO	Texas	NAVY	RDTE/Electronics & Communication Eq-Advanc	65	
		USAF	RDTE/Electronics & Communication Eq-Advanc	280	
	COUNTRY TOTAL			345	
M T L SYSTEMS INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	564	
M/A COM LINKABIT INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	532	
M/A-COM INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc	118	
MAGNAVOX GOVT & INDSTRL ELECTR	Indiana	NAVY	RDTE/Electronics & Communication Eq-Advanc	59	
		USAF	RDTE/Electronics & Communication Eq-Advanc	453	
	COUNTRY TOTAL			512	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION	\$	108
AC63 (CONTINUED)							
	MARTIN MARIETTA CORPORATION	Florida	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc		\$ 11,355	11,355
		COUNTRY TOTAL				11,763	11,763
	ILLINOIS	USA	USA	RDTE/Electronics & Communication Eq-Advanc		400	400
	MARYLAND	USA	USA	RDTE/Electronics & Communication Eq-Advanc		102	102
	CONTRACTOR TOTAL					12,265	12,265
	MASSACHUSETTS TECHNOLOGICAL LAB	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc		221	221
	MC DONNELL DOUGLAS CORPORATION	California	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc		3,750	3,750
		COUNTRY TOTAL				346	346
						4,096	4,096
	MISSOURI	USA	USA	RDTE/Electronics & Communication Eq-Advanc		7,189	7,189
	CONTRACTOR TOTAL					11,285	11,285
	MEMTECH TECHNOLOGY CORPORATION	California	USA	RDTE/Electronics & Communication Eq-Advanc		200	200
	MIAMI VALLEY RESEARCH INST	Ohio	USA	RDTE/Electronics & Communication Eq-Advanc		60	60
	MICROWAVE MODULE & DEVICES	California	USA	RDTE/Electronics & Communication Eq-Advanc		60	60
	MICROWAVE TECHNOLOGY INC	California	USA	RDTE/Electronics & Communication Eq-Advanc		70	70
	MINNESOTA MIN & MFG COMPANY	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Advanc		29	29
	MISSION RESEARCH CORPORATION	California	USA	RDTE/Electronics & Communication Eq-Advanc		111	111
	MOTOROLA INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Advanc		887	887
	NASA	Virginia	USA	RDTE/Electronics & Communication Eq-Advanc		200	200
	NATIONAL SCIENCE FOUNDATION	D.C.	USA	RDTE/Electronics & Communication Eq-Advanc		146	146
	NATIVE AMERICAN SERVICE ASSN	Alabama	ARMY	RDTE/Electronics & Communication Eq-Advanc		99	99
	NEW ENGLAND RESEARCH CENTER	Mass	USA	RDTE/Electronics & Communication Eq-Advanc		650	650
	NICHOLS RESEARCH CORPORATION	Alabama	USA	RDTE/Electronics & Communication Eq-Advanc		860	860
	NORDEN SYSTEMS INC	California	USA	RDTE/Electronics & Communication Eq-Advanc		278	278

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Conn	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	\$ 1.27 1.225
	COUNTRY TOTAL		1.352
	CONTRACTOR TOTAL		1.630
NORTHROP CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc
	Illinois	ARMY	RDTE/Electronics & Communication Eq-Advanc
	CONTRACTOR TOTAL		1.795
NUMERIX CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc
	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc
	CONTRACTOR TOTAL		79
ODYSSEY RESEARCH ASSOCIATES	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc
OHIO STATE UNIVERSITY	Ohio	USAFAF	RDTE/Electronics & Communication Eq-Advanc
ONEIDA RESOURCES INC	Ohio	USAFAF	RDTE/Electronics & Communication Eq-Advanc
OPTIMETRICS INC	Ohio	USAFAF	RDTE/Electronics & Communication Eq-Advanc
OPTOMECH DESIGN CO INC	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Advanc
ORINICON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc
P E SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc
PACIFIC SIERRA RESEARCH CORP	California	ARMY USAFAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc
	COUNTRY TOTAL		1.272
PALISADES INST FOR RES SVCS	Ohio	USAFAF	RDTE/Electronics & Communication Eq-Advanc
PAR TECHNOLOGY CORPORATION	New York	USAFAF	RDTE/Electronics & Communication Eq-Advanc
PERKIN ELMER CORPORATION	Conn	USAFAF	RDTE/Electronics & Communication Eq-Advanc
PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc
			1.563
			1.9

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC63 (CONTINUED)						
				COUNTRY TOTAL		
QUALCOMM INC		California	USAF	RDTE/Electronics & Communication Eq-Advanc	\$ 144	144
QUEST RESEARCH CORPORATION		Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	193	193
QUESTECH INC		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	332	332
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	729	729
CONTRACTOR TOTAL						
RAYTHEON COMPANY		California	ARMY	RDTE/Electronics & Communication Eq-Advanc	370	370
			USAF	RDTE/Electronics & Communication Eq-Advanc	370	370
				COUNTRY TOTAL		
Mass		Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	27	27
			USAF	RDTE/Electronics & Communication Eq-Advanc	397	397
				COUNTRY TOTAL		
Rhode Isld		Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Advanc	154	154
				COUNTRY TOTAL		
RAYTHEON SERVICE COMPANY		Wisconsin	USAF	RDTE/Electronics & Communication Eq-Advanc	2,500	2,500
RECON & OPTICAL INC		Illinois	ARMY	RDTE/Electronics & Communication Eq-Advanc	2,654	2,654
RENSSLAER POLYTECHNIC INST		New York	USAF	RDTE/Electronics & Communication Eq-Advanc	5,094	5,094
RESEARCH TRIANGLE INSTITUTE		N Carolina	ARMY	RDTE/Electronics & Communication Eq-Advanc	5,464	5,464
			USAF	RDTE/Electronics & Communication Eq-Advanc	292	292
CONTRACTOR TOTAL						
RISBERG POWER ELECTRONICS INC		Wisconsin	NAVY	RDTE/Electronics & Communication Eq-Advanc	8,410	8,410
ROCKWELL INTERNATIONAL CORP		California	ARMY	RDTE/Electronics & Communication Eq-Advanc	50	50
			NAVY	RDTE/Electronics & Communication Eq-Advanc	4,708	4,708
			USAF	RDTE/Electronics & Communication Eq-Advanc	100	100
				COUNTRY TOTAL		
					3,039	3,039
					7,847	7,847

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION	\$	
AC63 (CONTINUED)						
	CONTRACTOR TOTAL	Texas	NAVY	RDTE/Electronics & Communication Eq-Advanc	\$ 1,562	
SAFT AMERICA INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	9,409		
SANDERS ASSOCIATES INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Advanc	200		
SCI TEC INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	1,744-		
SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	26		
	NAVY	RDTE/Electronics & Communication Eq-Advanc	753			
	COUNTRY TOTAL			268		
	D.C.	NAVY	RDTE/Electronics & Communication Eq-Advanc	1,021		
	New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	119		
	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	100		
	Virginia	NAVY	RDTE/Electronics & Communication Eq-Advanc	421		
	USAF	RDTE/Electronics & Communication Eq-Advanc	560			
	COUNTRY TOTAL			100		
				660		
	CONTRACTOR TOTAL				2,321	
SCIENCE RESEARCH LABORATORY	California	USAF	RDTE/Electronics & Communication Eq-Advanc	50		
SCOPE INCORPORATED	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	190		
SEDCO SYSTEMS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	468		
SEMCOR INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Advanc	100		
SENSCI CORP	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	211		
SOFTECH INC	Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	1,300		
	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	207		
	CONTRACTOR TOTAL				1,507	
SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc	35		
SOFTWARE SYSTEMS ENGINEERING	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	404		

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC63 (CONTINUED)					
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Advanc	30
	SPARTON ELECTRONICS FLORIDA	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc	150
	SPECTRA TECHNOLOGY INC	Washington	USAF	RDTE/Electronics & Communication Eq-Advanc	270
	SPIRE CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	50
	SRI INTERNATIONAL	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	9,289
	STANFORD LEELAND JUNIOR UNIV	California	USAF	RDTE/Electronics & Communication Eq-Advanc	94
	T S C INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	571
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	5,160 1,000 2,078
	COUNTRY TOTAL				8,238
	TRACOR APPLIED SCIENCES INC	Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	285
	TRACOR FLIGHT SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	424
	TRICOR SYSTEMS INC	Illinois	NAVY	RDTE/Electronics & Communication Eq-Advanc	75
	TRITON TECHNOLOGY INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Advanc	65
	TRW INC	California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	1,716 5,028 12,707
	COUNTRY TOTAL				19,451
	CONTRACTOR TOTAL				2,610
	UNISYS CORPORATION	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	22,061
		Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	45-
		Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	370
		New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,500
		Utah	USAF	RDTE/Electronics & Communication Eq-Advanc	2,650

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC63 (CONTINUED)						
				CONTRACTOR TOTAL		
	UNITED STATES DEPT ENERGY	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	50	50
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc	125	125
		Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	400	400
				CONTRACTOR TOTAL		525
	UNIVERSITY OF KANSAS	Kansas	NAVY	RDTE/Electronics & Communication Eq-Advanc	32	32
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	385	385
			USAF	RDTE/Electronics & Communication Eq-Advanc	311-	311-
				COUNTRY TOTAL		74
		Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	769-	769-
				CONTRACTOR TOTAL		695-
	VEDA INTERNATIONAL INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	472	472
	VITRONICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	600	600
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Electronics & Communication Eq-Advanc	228	228
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	6,640	6,640
			USAF	RDTE/Electronics & Communication Eq-Advanc	2,475	2,475
				COUNTRY TOTAL		9,115
		Penn	USAF	RDTE/Electronics & Communication Eq-Advanc	130	130
				CONTRACTOR TOTAL		9,245
	XETRON CORPORATION	Ohio	ARMY	RDTE/Electronics & Communication Eq-Advanc	70	70
				R&D TOTAL		417,562
AC64	A A I CORPORATION	Maryland	USAF	RDTE/Electronics & Communication Eq-Engr D	260	260
	A T & T TECHNOLOGIES INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	10,196	10,196
		N Carolina	NAVY	RDTE/Electronics & Communication Eq-Engr D	105,919	105,919

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D
CONTRACTOR NAME
AC64 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
CONTRACTOR TOTAL					
	ADVANCED TECHNOLOGY INC	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Engr D	\$ 116,115
	AEL INDUSTRIES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Engr D	40
	AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	68
	AHNTech INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	248
	ALLIED SIGNAL AEROSPACE CO	Maryland	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,939
			NAVY	RDTE/Electronics & Communication Eq-Engr D	60
			USAF	RDTE/Electronics & Communication Eq-Engr D	1,910
		COUNTRY TOTAL			47,754
	AMERICAN ELECTRONICS INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	49,724
	AMERICAN SYSTEMS CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	483
		Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	2,147
		CONTRACTOR TOTAL			6,764
	ANALYSIS & COMPUTER SYSTEMS	Mass	ARMY	RDTE/Electronics & Communication Eq-Engr D	8,911
			USAF	RDTE/Electronics & Communication Eq-Engr D	3,950
		COUNTRY TOTAL			7,999
	ANDRULIS RESEARCH CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,749
	ASTRON CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,180
	AYDIN CORPORATION	Penn	USAF	RDTE/Electronics & Communication Eq-Engr D	68
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Engr D	566
	BOEING COMPANY THE	Kansas	USAF	RDTE/Electronics & Communication Eq-Engr D	98
		Washington	NAVY	RDTE/Electronics & Communication Eq-Engr D	774
			USAF	RDTE/Electronics & Communication Eq-Engr D	95,138
		COUNTRY TOTAL			71,483
		CONTRACTOR TOTAL			166,621
					167,395

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC64 (CONTINUED)						
	BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D		53
		Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D		1,638
	CONTRACTOR TOTAL					1,691
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Engr D		162
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D		400
	CONTRACTOR TOTAL					562
	BRIMROSE CORP OF AMERICA	Maryland	USAF	RDTE/Electronics & Communication Eq-Engr D		150
	C E OPERATIONS & MAINT SVC INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D		15,507
	CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Engr D		9,817
	CANADIAN COMMERCIAL CORP	CANADA	NAVY	RDTE/Electronics & Communication Eq-Engr D		59
			USAF	RDTE/Electronics & Communication Eq-Engr D		311
	COUNTRY TOTAL					370
	COLLINS INTERNATIONAL SVC CO	Iowa	NAVY	RDTE/Electronics & Communication Eq-Engr D		53-
			USAF	RDTE/Electronics & Communication Eq-Engr D		158
	COUNTRY TOTAL					105
	COMARCO INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D		9,803
	COMMAND CTRL CMMNCATIONS CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D		307
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		264
		New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D		2,935
			USAF	RDTE/Electronics & Communication Eq-Engr D		8,202
	COUNTRY TOTAL					11,137
	CONTRACTOR TOTAL					11,401
	CONTROL DATA CORPORATION	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Engr D		13,787
			USAF	RDTE/Electronics & Communication Eq-Engr D		2,016
	COUNTRY TOTAL					15,803
	CRC SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		100

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC64 (CONTINUED)					
	CTS CORPORATION	Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	\$ 395
	CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,260
	DATRON SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Engr D	230
	DYNETICS INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	1,315
	E SYSTEMS INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	11,694
		Utah	ARMY	RDTE/Electronics & Communication Eq-Engr D	940
	CONTRACTOR TOTAL				12,634
	EAGLE TECHNOLOGY INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,058
	EATON CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Engr D	200
			NAVY	RDTE/Electronics & Communication Eq-Engr D	7,609
	COUNTRY TOTAL				7,809
	EDO CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,256
	EDO WESTERN CORPORATION	Utah	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,248
	ELECTRONIC WARFARE ASSOCIATES	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	185
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	50
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	4,103
	FORD AEROSPACE COMMCTIONS CORP	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	349
		USAF	RDTE/Electronics & Communication Eq-Engr D	93,827	
	COUNTRY TOTAL				94,176
	FOSTER MILLER INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Engr D	32,353
	G T E LABORATORIES INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	126,529
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	500
			USAF	RDTE/Electronics & Communication Eq-Engr D	70
	CONTRACTOR TOTAL				13,140

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	(AMOUNTS IN THOUSANDS)
AC64 (CONTINUED)					
	GENERAL ELECTRIC CO	Alabama	ARMY	RDTE/Electronics & Communication Eq-Engr D	\$ 2,360
		New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D	16,550
		New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	56,820
			USAF	RDTE/Electronics & Communication Eq-Engr D	93-
		COUNTRY TOTAL			56,727
		Penn	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,000
		CONTRACTOR TOTAL			77,637
	GENERAL INSTRUMENT CORP DEL	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	5,653
	GODDYNAMICS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D	115
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,217
			USAF	RDTE/Electronics & Communication Eq-Engr D	859
		COUNTRY TOTAL			2,076
	GRUMMAN AEROSPACE CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	32,862
		New York	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,052
			NAVY	RDTE/Electronics & Communication Eq-Engr D	12,791
			USAF	RDTE/Electronics & Communication Eq-Engr D	142,162
		COUNTRY TOTAL			156,005
		CONTRACTOR TOTAL			188,867
	GRUMMAN DATA SYSTEMS CORP	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	8,405
	GTE GOVERNMENT SYSTEMS CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,666
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	130
		CONTRACTOR TOTAL			2,796
	HARRIS CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,637
			USAF	RDTE/Electronics & Communication Eq-Engr D	18,112
		COUNTRY TOTAL			19,749

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	(AMOUNTS IN THOUSANDS)
AC64 (CONTINUED)					
	HAZELTINE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	\$ 4,771
	HEWLETT PACKARD COMPANY	Maryland	ARMY	RDTE/Electronics & Communication Eq-Engr D	157
	HONEYWELL INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,150
	HORIZONS TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	3,813
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	8,545
		NAVY	RDTE/Electronics & Communication Eq-Engr D	1,060	
		USAF	RDTE/Electronics & Communication Eq-Engr D	2,272	
	COUNTRY TOTAL				11,877
	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Engr D	400	
CONTRACTOR TOTAL					
	I I T RESEARCH INSTITUTE	Illinois	NAVY	RDTE/Electronics & Communication Eq-Engr D	12,277
	I L C DATA DEVICE CORP DEL	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	6,851
	I M R SYSTEMS CORPORATION	Kansas	ARMY	RDTE/Electronics & Communication Eq-Engr D	49
	I W G CORP	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	301
	INDUSTRIAL DATA LINK CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	57
	INTERMETRICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	57
		New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	3,400
	COUNTRY TOTAL				33
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Engr D	3,433
		New York	USAF	RDTE/Electronics & Communication Eq-Engr D	1,847
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	28
	COUNTRY TOTAL				92,025
	INTERSTATE ELECTRONICS CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	93,900
	ISRAEL AIRCRAFT INDUSTRIES	ISRAEL	NAVY	RDTE/Electronics & Communication Eq-Engr D	21,752
	ITT CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	11,851
					17,946

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R&D
CONTRACTOR NAME
COUNTRY
DEPT
-R&D DESCRIPTION-

AC64 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
CONTRACTOR TOTAL					
K M S FUSION INC	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	\$ 600	7,372
KAMAN AEROSPACE CORPORATION	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D		2,179
KAPOS ASSOCIATES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		30
KEARFOTT GUIDANCE NAVIG CORP	New Jersey	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D		614
CONTRACTOR TOTAL					
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D		59
LEXIKOS CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D		535
LITTON SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		2,537
CONTRACTOR TOTAL					
LOCKHEED CORPORATION	N. H.	USAF	RDTE/Electronics & Communication Eq-Engr D		47,453
LOCKHEED MISSILES & SPACE CO	Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D		2,507
LOCUS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D		64
CONTRACTOR TOTAL					
LOGICON INC	California	USAF	RDTE/Electronics & Communication Eq-Engr D		317
LORAL CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D		4,798
CONTRACTOR TOTAL					
AC64 (CONTINUED)					
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC64 (CONTINUED)						
	LORAL ELECTRONIC SYSTEMS	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	\$	7,467
	LORAL FAIRCHILD SYSTEMS INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Engr D		6,772
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D		1,422-
	M T L SYSTEMS INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D		77
	M/A COM LINKABIT INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		7,918
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D		399
	MAGNAVOX GOVT & INDSTRL ELCTR	Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D		6,198
		USAF	RDTE/Electronics & Communication Eq-Engr D			392
	COUNTRY TOTAL					6,590
	MANAGEMENT CONSULTING & RES	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D		83
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Engr D		15,145
		Florida	ARMY	RDTE/Electronics & Communication Eq-Engr D		4,304
	CONTRACTOR TOTAL					13,449
	MC DONNELL DOUGLAS CORPORATION	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D		737
		Missouri	NAVY	RDTE/Electronics & Communication Eq-Engr D		5,906
		USAF	RDTE/Electronics & Communication Eq-Engr D			5,547
	COUNTRY TOTAL					11,453
	CONTRACTOR TOTAL					12,190
	METRIC SYSTEMS CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D		4-
	MICRO COMPUTER SYSTEM INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D		161
	MICROWAVE RADIO CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		50
	MOTOROLA INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D		12,554
	NATION INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D		3,287
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Engr D		913

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC64 (CONTINUED)						
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Engr D		281
	NEWPORT NEWS SHPBLDING DRYDOCK	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	\$	563
	NORDEN SYSTEMS INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D		362
	NORTHEAN TELECOM INC DEL	Georgia	USAF	RDTE/Electronics & Communication Eq-Engr D		108
	NORTHROP CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D		300
		Illinois	USAF	RDTE/Electronics & Communication Eq-Engr D		879
		Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D		698
	CONTRACTOR TOTAL					1,877
	OPTIC ELECTRONIC CORP	Texas	ARMY	RDTE/Electronics & Communication Eq-Engr D		711
	ORKAND CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Engr D		60
	PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Engr D		57
	PERCEPTRONICS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D		350
	PERKIN ELMER CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Engr D		2,000
	PLANNING RESEARCH CORPORATION	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D		289
	PLANNING SYSTEMS INCORPORATED	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D		50
	PLESSEY DYNAMICS CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D		5,199
	PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D		150
	QUEST RESEARCH CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D		1,686
	QUESTECH INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D		515
	R & D ASSOCIATES	Washington	ARMY	RDTE/Electronics & Communication Eq-Engr D		93
	RAVEN CONSTRUCTION NORTHERN	FRANCE	ARMY	RDTE/Electronics & Communication Eq-Engr D		767
	RAYTHEON COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Engr D		250
		NAVY	RDTE/Electronics & Communication Eq-Engr D			1,161

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC64 (CONTINUED)						
		COUNTRY TOTAL				
	Mass	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D		17,587 24,822	
		COUNTRY TOTAL			42,409	
		CONTRACTOR TOTAL			43,820	
	RAYTHEON SERVICE COMPANY	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D		
	RICOH CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	9,778	
	ROCKWELL INTERNATIONAL CORP	California	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	430 95	31-
		COUNTRY TOTAL			525	
	Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D		4,573	
		CONTRACTOR TOTAL			5,098	
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Electronics & Communication Eq-Engr D		
	SANDERS ASSOCIATES INC	N.H.	NAVY	RDTE/Electronics & Communication Eq-Engr D	117	
	SCHLUMBERGER TECHNOLOGY CORP	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	21,013	
	SCHWARTZ ELECTRO-OPTICS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	185	
	SCIENCE APPLICATIONS INT'L CORP	Alabama	USAF	RDTE/Electronics & Communication Eq-Engr D	152	
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	336	
		Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	2,973	
		Virginia	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	200 754 89-	
		COUNTRY TOTAL			665	
		CONTRACTOR TOTAL			4,174	
	SCOPE INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,942	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC64 (CONTINUED)						
	SIERRA MONOLITHICS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	\$	50
	SIERRA RESEARCH ENGRG CORP	New York	USAF	RDTE/Electronics & Communication Eq-Engr D		642
	SINGER COMPANY THE	California	USAF	RDTE/Electronics & Communication Eq-Engr D		50
	SIPICAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D		3,066
	SMITHS INDUSTRIES INC USA	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D		19,201
	SPARTA INC	California	USAF	RDTE/Electronics & Communication Eq-Engr D		217
		Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D		
	CONTRACTOR TOTAL					1,731
		Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D		1,948
		Michigan	NAVY	RDTE/Electronics & Communication Eq-Engr D		6,694
	CONTRACTOR TOTAL					6,694
		New York	USAF	RDTE/Electronics & Communication Eq-Engr D		2,860
		California	USAF	RDTE/Electronics & Communication Eq-Engr D		61
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D		577
			USAF	RDTE/Electronics & Communication Eq-Engr D		5,069
	COUNTRY TOTAL					7,313
	SPERRY CORPORATION					
	SRI INTERNATIONAL					
	STANFORD TELECOMMUNICATIONS					
	SUMARIA SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D		1,805
	SUMMIT TECHNOLOGIES INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D		1,025
	SYNDETIX INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Engr D		150
	SYSTEM DEVELOPMENT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D		1,897
	SYSTEMS EXPLORATION INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		1,838-
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D		230
	TECHDYN SYSTEMS CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D		1,801

Prepared By: Washington Headquarters Services
 Directorate for Information Operations and Reports

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC64 (CONTINUED)					
	TECHNOLOGY COMMUNICATN INTL	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	\$ 329
	TECOLOTE RESEARCH INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	150
	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	612
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	2,897 999
	COUNTRY TOTAL				3,896
	TEXTRON INC	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,497
	TITAN SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	467
	TRACOR AEROSPACE INC	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	62
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	127
		Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	16,494
	CONTRACTOR TOTAL				16,671
	TRW INC	California	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	253 45,403
	COUNTRY TOTAL				45,656
	UT L CORPORATION	Texas	ARMY	RDTE/Electronics & Communication Eq-Engr D	441
	UNISYS CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	250
		Minnesota	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,747
	CONTRACTOR TOTAL				2,997
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Electronics & Communication Eq-Engr D	199
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	30
		Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	85
	CONTRACTOR TOTAL				115

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC64 (CONTINUED)						
	VEDA INTERNATIONAL INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	\$ 990	
	VISICOM LABORATORIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	664	
	WATKINS JOHNSON COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	15,402	
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Engr D	6,500	
			NAVY	RDTE/Electronics & Communication Eq-Engr D	2,759	
			USAF	RDTE/Electronics & Communication Eq-Engr D	1,795	
		COUNTRY TOTAL			11,054	
	XETRON CORPORATION	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	674	
	ZETA DATA INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	931	
		R&D TOTAL			1,527,365	
AC65 A T & T TECHNOLOGIES INC						
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	233	
		N Carolina	NAVY	RDTE/Electronics & Communication Eq-Op Sys	2,178	
		CONTRACTOR TOTAL			2,411	
	ADAPTIVE SENSORS INC	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	50	
	ADVANCE DIGITAL SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,170	
	ADVANCED DIGITAL SYSTEM INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	900	
	ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	603	
	ADVANCED TECHNOLOGY SYSTEMS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	665	
	AITECH DEFENSE SYS INC	ISRAEL	NAVY	RDTE/Electronics & Communication Eq-Op Sys	85	
	ANALYSIS & COMPUTER SYSTEMS	Mass	USAF	RDTE/Electronics & Communication Eq-Op Sys	992	
	ANALYTIC SCIENCES CORP THE	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,059	
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	424	
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys	182	
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	296	
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	2,986	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
(AMOUNTS IN THOUSANDS)					
AC65 (CONTINUED)					
	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys		\$ 1,212
	CONTRACTOR TOTAL	Texas	USAF RDTE/Electronics & Communication Eq-Op Sys		4,494
AUTOMETRIC INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys		197
BBN SYSTEMS & TECHNOLOGIES	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys		294
BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys		1,521
					140
					1,661
BOEING COMPANY THE	Washington	NAVY	RDTE/Electronics & Communication Eq-Op Sys		39
BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys		5,404
BOOZ ALLEN & HAMILTON INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys		36-
	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys		894
					858
BRUNSWICK CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys		1,415
C M ENGINEERING CO	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys		655
CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys		11,188
CINCINNATI ELECTRONICS CORP	Ohio	NAVY	RDTE/Electronics & Communication Eq-Op Sys		7,619
COLLINS INTERNATIONAL SVC CO	Iowa	ARMY	RDTE/Electronics & Communication Eq-Op Sys		587-
		USAF	RDTE/Electronics & Communication Eq-Op Sys		75,700
					75,113
COUNTRY TOTAL	Texas	1'SAF	RDTE/Electronics & Communication Eq-Op Sys		50,734
					125,847
					1,202
CONTRACTOR TOTAL	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys		900
COLUMBIA UNIVERSITY	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		
COMPTEK RESEARCH INC					

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC65 (CONTINUED)						
	COMPUTER CORPORATION AMERICA	Mass		NAVY RDTE/Electronics & Communication Eq-Op Sys	\$ 127	
	COMPUTER SCIENCES CORPORATION	California		NAVY RDTE/Electronics & Communication Eq-Op Sys	28,232	
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	265	
	CONTRACTOR TOTAL				28,497	
	COMPUTER SOFTWARE ANALYSTS	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	73	
	CONTRAVES GOERZ CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys	250	
	CONVEX COMPUTER CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Op Sys	500	
	CUBIC COMMUNICATIONS INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	660	
	DAVID SARNOFF RESEARCH CENTER	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys	152	
	DBA SYSTEMS INC	Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys	380	
	DESIGN ENGINEERING INC	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Op Sys	28	
	DOSS AVIATION INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Op Sys	3,276	
	DRAGON SYSTEMS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys	435	
	E C CORPORATION OF OAK RIDGE	Kentucky	ARMY	RDTE/Electronics & Communication Eq-Op Sys	1,436	
	ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys	350-	
	ENCORE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys	2,360	
	ENGINEERING & ECONOMICS RES	Maryland	ARMY	RDTE/Electronics & Communication Eq-Op Sys	771	
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	200	
	ESL INCORPORATED	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Op Sys	110	
	EVALUATION RESEARCH CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	2,873	
	FLAM & RUSSELL INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Op Sys	400	
	FORD AEROSPACE COMMCTIONS CORP	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	190	
		Colorado	USAF	RDTE/Electronics & Communication Eq-Op Sys	1,081-	

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R&D CONTRACTOR NAME COUNTRY DEPT (AMOUNTS IN THOUSANDS)

AC65 (CONTINUED)

				R&D DESCRIPTION
R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)
Kansas	ARMY	RDTE/Electronics & Communication Eq-Op Sys	\$ 9,983	
KOREA, REP	ARMY	RDTE/Electronics & Communication Eq-Op Sys	159	
CONTRACTOR TOTAL			9,251	
GALAXY SCIENTIFIC CORP	New Jersey	NAVY RDTE/Electronics & Communication Eq-Op Sys	85	
GENERAL DYNAMICS CORPORATION	California	ARMY RDTE/Electronics & Communication Eq-Op Sys	227-	
Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys		10,362
CONTRACTOR TOTAL			10,135	
GENERAL ELECTRIC CO	Mass	ARMY RDTE/Electronics & Communication Eq-Op Sys	3,760	
	New Jersey	ARMY RDTE/Electronics & Communication Eq-Op Sys	59-	
	New York	USAF RDTE/Electronics & Communication Eq-Op Sys	370-	
	Penn	USAF RDTE/Electronics & Communication Eq-Op Sys	2,594	
CONTRACTOR TOTAL			5,925	
GEORGIA TECH RESEARCH INST	Georgia	ARMY RDTE/Electronics & Communication Eq-Op Sys	1,096	
	NAVY RDTE/Electronics & Communication Eq-Op Sys	90		
COUNTRY TOTAL			1,186	
GRUMMAN AEROSPACE CORPORATION	New York	NAVY RDTE/Electronics & Communication Eq-Op Sys	3,800	
GTE GOVERNMENT SYSTEMS CORP	California	ARMY RDTE/Electronics & Communication Eq-Op Sys	81	
	Mass	ARMY RDTE/Electronics & Communication Eq-Op Sys	3,144	
		NAVY RDTE/Electronics & Communication Eq-Op Sys	937	
		USAF RDTE/Electronics & Communication Eq-Op Sys	58,690	
COUNTRY TOTAL			62,771	
CONTRACTOR TOTAL			62,852	
HARRIS CORPORATION	Florida	ARMY RDTE/Electronics & Communication Eq-Op Sys	2,510	
HARVARD UNIVERSITY	Mass	NAVY RDTE/Electronics & Communication Eq-Op Sys	666	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC65 (CONTINUED)					
	HONEYWELL INC	Florida	USAF	RDTE/Electronics & Communication Eq-0p Sys	\$ 88
		Minnesota	ARMY	RDTE/Electronics & Communication Eq-0p Sys	729
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-0p Sys	5,643
	CONTRACTOR TOTAL				6,460
	HORIZONS TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-0p Sys	801
	HRB SINGER INC	Penn	USAF	RDTE/Electronics & Communication Eq-0p Sys	67
	HUGHES AIRCRAFT COMPANY	California	ARMY NAVY	RDTE/Electronics & Communication Eq-0p Sys RDTE/Electronics & Communication Eq-0p Sys	2,206 15,496
	COUNTRY TOTAL				17,702
		Illinois	ARMY	RDTE/Electronics & Communication Eq-0p Sys	67
	CONTRACTOR TOTAL				17,769
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Electronics & Communication Eq-0p Sys	100
	INDUSTRIAL DATA LINK CORP	California	USAF	RDTE/Electronics & Communication Eq-0p Sys	270
	INTERMETRICS INC	Mass	ARMY	RDTE/Electronics & Communication Eq-0p Sys	468
	INTERNATIONAL BUS MCHS CORP	Florida	USAF	RDTE/Electronics & Communication Eq-0p Sys	768
		Hawaii	ARMY	RDTE/Electronics & Communication Eq-0p Sys	45
		Maryland	ARMY USAF	RDTE/Electronics & Communication Eq-0p Sys RDTE/Electronics & Communication Eq-0p Sys	332 10,331
	COUNTRY TOTAL				10,663
		New York	NAVY USAF	RDTE/Electronics & Communication Eq-0p Sys RDTE/Electronics & Communication Eq-0p Sys	700 27-
	COUNTRY TOTAL				673
	Oklahoma	USAF	RDTE/Electronics & Communication Eq-0p Sys		69
	CONTRACTOR TOTAL				12,218

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC65 (CONTINUED)						
	ITT CORPORATION	Indiana	ARMY	RDTE/Electronics & Communication Eq-Op Sys	\$ 496	
		New Jersey	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	147 91,795 15,063	
		COUNTRY TOTAL			107,005	
	CONTRACTOR TOTAL				107,501	
	J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	493	
	KAISER AEROSPACE & ELEC CORP	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	35	
	KESTREL INSTITUTE	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	474	
	LITTON INDUSTRIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	100	
	LITTON SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	2,729	
		Colorado	NAVY	RDTE/Electronics & Communication Eq-Op Sys	212,484	
	CONTRACTOR TOTAL				215,213	
	LOCKHEED CORPORATION	Georgia	USAFA	RDTE/Electronics & Communication Eq-Op Sys	9,971	
	LOGICON INC	New Mexico	USAFA	RDTE/Electronics & Communication Eq-Op Sys	1,493	
	M/A COM LINKABIT INC	California	USAFA	RDTE/Electronics & Communication Eq-Op Sys	145	
	MAGNAVOX GOVT & INDSTRL ELCTR	Indiana	ARMY	RDTE/Electronics & Communication Eq-Op Sys	2,000	
	MAGNAVOX OVERSEAS LTD	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	92	
	MANTECH INTERNATIONAL CORP	Arizona	ARMY	RDTE/Electronics & Communication Eq-Op Sys	1,323	
	MARTIN MARIETTA CORPORATION	Florida	USAFA	RDTE/Electronics & Communication Eq-Op Sys	37-	
	MASSACHSTTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys	190	
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAFA	RDTE/Electronics & Communication Eq-Op Sys	1,257	
	MILTOPE CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	13,886	
	MISSION RESEARCH CORPORATION	California	USAFA	RDTE/Electronics & Communication Eq-Op Sys	218	
	NORDEN SYSTEMS INC	Maryland	USAFA	RDTE/Electronics & Communication Eq-Op Sys	180-	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AC65 (CONTINUED)					
	P C O INC	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	\$ 74
	PACER SYSTEMS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys	557
	PAR GOVT SYSTEMS CORP	New York	ARMY	RDTE/Electronics & Communication Eq-Op Sys	33
	PAR TECHNOLOGY CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Op Sys	44
	PENNSYLVANIA STATE UNIV THE	Penn	ARMY NAVY	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	70 46,743
	COUNTRY TOTAL				
	PENNWALT CORPORATION	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	119
	PRESEARCH INCORPORATED	Florida	NAVY	RDTE/Electronics & Communication Eq-Op Sys	672
	QUANTITATIVE INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	222
	RAYTHEON COMPANY	Mass	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	6,859 63,998
	COUNTRY TOTAL				
	RESEARCH & DEV LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	165
	RICOH CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Op Sys	115-
	RMS TECHNOLOGIES INCORPORATED	Penn	USAF	RDTE/Electronics & Communication Eq-Op Sys	4,270
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,266
		Iowa	NAVY	RDTE/Electronics & Communication Eq-Op Sys	3,983
		Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys	1,721-
	CONTRACTOR TOTAL				
	SANDERS ASSOCIATES INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Op Sys	373
	SCI TEC INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	73
	SCIENCE APPLICATIONS INTL CORP	California Virginia	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys	4,918 418

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	TOTAL
AC65 (CONTINUED)						
	CONTRACTOR TOTAL					
SCIENTIFIC ATLANTA INC	Georgia	USAF	RDTE/Electronics & Communication Eq-Op Sys		777	
SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys		425	
SENSIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys		518	
SINGER COMPANY THE	Oklahoma	ARMY	RDTE/Electronics & Communication Eq-Op Sys		3	
SONALYSTS INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Op Sys		220	
SONICRAFT INC	Illinois	USAF	RDTE/Electronics & Communication Eq-Op Sys		524-	
SPARTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Op Sys		260	
SPERRY CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Op Sys		500	
SRI INTERNATIONAL	California	ARMY NAVY	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys		1,250 1,284	
	COUNTRY TOTAL				2,534	
STANFORD LEMLAND JUNIOR UNIV	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		3,945	
SYSCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		2,245	
SYSTEM DEVELOPMENT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys		230	
SYSTEM RESOURCES CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys		1,369	
SYSTEMS INTEGRATION & DEV INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		258	
TECHDYN SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys		26	
TECHNOLOGY COMMUNICATN INTL	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		96	
TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		92	
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys		4,736 611 291	
	COUNTRY TOTAL				5,638	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AC65 (CONTINUED)						
	TRACOR APPLIED SCIENCES INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	96	
	TRW INC	California	ARMY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	33,652 18,112	
		COUNTRY TOTAL			51,764	
	UNISYS CORPORATION	Minnesota	USAF	RDTE/Electronics & Communication Eq-Op Sys	10,208	
		New York	USAF	RDTE/Electronics & Communication Eq-Op Sys	343	
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	770	
		CONTRACTOR TOTAL			11,321	
	UNITED KINGDOM MINISTRY OF DEF	UNITED KING	NAVY	RDTE/Electronics & Communication Eq-Op Sys	882	
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,595	
	UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	270	
	VARIAN ASSOCIATES INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	28	
	WANG LABORATORIES INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Op Sys	290	
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	65 39-	
		COUNTRY TOTAL			26	
	WILSON HILL ASSOCIATES INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Op Sys	187	
		R&D TOTAL			919,321	
AC66	A P A OPTICS INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Mgmt &	399	
	ADVANCED DECISION SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	191	
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	186	
	ADVANCED TECHNOLOGY SYSTEMS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	300	
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	75	
	AMBER ENGINEERING INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	134	
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &	59	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	48
AC66 (CONTINUED)						
	APTEK INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		
	ARGOTEC INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		1,063
	ATEAM CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &		128
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &		52
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		50
	ATLANTIC RESEARCH CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		30
	BDM INTERNATIONAL INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &		944
		New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &		1,823
	CONTRACTOR TOTAL					2,767
	BLOOM E J ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		100
	C3CM TST ENGR	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		3,378
	CASCADE MICROTECH INC	Oregon	USAF	RDTE/Electronics & Communication Eq-Mgmt &		399
	CENTRA TECHNOLOGY INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		50
	CHANG INDUSTRY INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		150
	CLEVELAND CRYSTALS INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &		101
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		302
	CYNETICS CORPORATION	S Dakota	USAF	RDTE/Electronics & Communication Eq-Mgmt &		59
	DCS CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Mgmt &		49
	DIGITAL SYSTEM RESOURCES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		100
	DOUGLAS MUSTER & ASSOC INC	Texas	USAF	RDTE/Electronics & Communication Eq-Mgmt &		49
	DYNAMET TECHNOLOGY INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &		49
	E TEK DYNAMICS INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		449
	ELCEE COMPUTEK INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &		48

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	1989
AC66 (CONTINUED)						
	ELECTRO OPTEK CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		193
	ENGINEERING MGMT RESOURCES	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		50
	FLAM & RUSSELL INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		50
	FOSTER MILLER INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &		323
	GENERAL ELECTRIC CO	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &		233
	GENERAL SIGNAL CONTROLS INC	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &		31
	GLYNN SCIENTIFIC INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &		470
	GT-TECH INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &		53
	HADRON INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		2,029
	HEWLETT PACKARD COMPANY	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &		111
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		81
	INDUSTRIAL QUALITY INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		250
	INFORMATION SYSTEMS PLG ANALYSIS	Georgia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		38
	INTEGRATED SOFTWARE INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &		399
	INTEGRITY SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &		211
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		112
	K V H INDUSTRIES INC	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		49
	KTECH CORPORATION	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &		67
	L N K CORPORATION	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &		70
	LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		50
	LISAN CORPORATION	D.C.	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		51
	LOCUS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		83
	LOGICON INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &		328

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(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT ----- R&D DESCRIPTION -----

AC66 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$	
	M/A COM LINKABIT INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	\$	3,700
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &		50
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &		500
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		25
	CONTRACTOR TOTAL					525
	MONTEREY TECH	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	47	
	NIMBLE COMPUTER CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		50
	OPTRON SYSTEMS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		58
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		99
	PLANNING RESEARCH CORPORATION	Nebraska	USAF	RDTE/Electronics & Communication Eq-Mgmt &		105
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		49
	POLYTRONIX INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		50
	PRT CORPORATION	Minnesota	USAF	RDTE/Electronics & Communication Eq-Mgmt &		495
	Q DOT INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &		47
	QUANTIC INDUSTRIES INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		140
	RADCON	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		268
	RAMSEARCH CO	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &		300
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		195
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		85
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &		150
	SCIENCE & TECHNOLOGY CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		233
	SCIENCE APPLICATIONS INTL CORP	Alabama	USAF	RDTE/Electronics & Communication Eq-Mgmt &		777
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		1,178

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R&D CONTRACTOR NAME
AC66 (CONTINUED)

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	95
				COUNTRY TOTAL		
	SILHOUETTE TECHNOLOGY INC	New Jersey		NAVY RDTE/Electronics & Communication Eq-Mgmt &		1,273
	SILICON DESIGNS INC	Washington		NAVY RDTE/Electronics & Communication Eq-Mgmt &		48
	SOFTWELL ASSOCIATES INC	N. H.		USAF RDTE/Electronics & Communication Eq-Mgmt &		48
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama		USAF RDTE/Electronics & Communication Eq-Mgmt &		303
	SPACE COMPUTER CORP	California		USAF RDTE/Electronics & Communication Eq-Mgmt &		683
	SRS TECHNOLOGIES	Alabama		NAVY RDTE/Electronics & Communication Eq-Mgmt &		399
	STERLING FEDERAL SYSTEMS INC	Nebraska		USAF RDTE/Electronics & Communication Eq-Mgmt &		50
	SYNERTECH ASSOCIATES INC	Virginia		NAVY RDTE/Electronics & Communication Eq-Mgmt &		6,844
	SYNETICS CORPORATION	Mass		USAF RDTE/Electronics & Communication Eq-Mgmt &		349
	TACAN CORPORATION	California		NAVY RDTE/Electronics & Communication Eq-Mgmt &		190
	TAU CORPORATION	California		USAF RDTE/Electronics & Communication Eq-Mgmt &		100
	TAWD SYSTEMS INCORPORATED	California		USAF RDTE/Electronics & Communication Eq-Mgmt &		403
	TECH TEAM INC	Alabama		USAF RDTE/Electronics & Communication Eq-Mgmt &		580
	TECHNICAL RESEARCH ASSOCIATES	Utah		USAF RDTE/Electronics & Communication Eq-Mgmt &		145
	TECHNOLOGY SYSTEMS INC	Maine		USAF RDTE/Electronics & Communication Eq-Mgmt &		122
	TEKTRONIX INC	Oregon		USAF RDTE/Electronics & Communication Eq-Mgmt &		47
	TRW INC	Virginia	ARMY NAVY	RDTE/Electronics & Communication Eq-Mgmt &		74
				RDTE/Electronics & Communication Eq-Mgmt &		1,619
				RDTE/Electronics & Communication Eq-Mgmt &		6,149
				COUNTRY TOTAL		7,768
	UFFA INC	Mass		USAF RDTE/Electronics & Communication Eq-Mgmt &		170
	UNIVERSAL TECHNOLOGY CORP	Ohio		USAF RDTE/Electronics & Communication Eq-Mgmt &		250

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AC66 (CONTINUED)					
	VANCE SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	\$ 350
	VARIAN ASSOCIATES INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	35
	VEDA INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	30
	VISICOM LABORATORIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	WELTRON	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	320
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &	3,110
	WILSON HILL ASSOCIATES INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	163
	R&D TOTAL				47,424
AC91	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Misc Hard Goods-Basic Research	565
	CHAMBERLAIN MANUFACTURING CORP	Illinois	NAVY	RDTE/Misc Hard Goods-Basic Research	35
	DIGITAL SYSTEM RESOURCES INC	Virginia	NAVY	RDTE/Misc Hard Goods-Basic Research	50
	INSTRUMENTS INC	California	NAVY	RDTE/Misc Hard Goods-Basic Research	77
	LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Misc Hard Goods-Basic Research	280
	MANDEX INC	Virginia	NAVY	RDTE/Misc Hard Goods-Basic Research	448
	NATIONAL EAGLE LEASING	D.C.	NAVY	RDTE/Misc Hard Goods-Basic Research	62
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Misc Hard Goods-Basic Research	38
	SRI INTERNATIONAL	California	USAF	RDTE/Misc Hard Goods-Basic Research	100
	SYSTEMS ENGRG & MGT COMPANY	Ohio	USAF	RDTE/Misc Hard Goods-Basic Research	160
	TRANSTECHNOLOGY CORPORATION	New Jersey	ARMY	RDTE/Misc Hard Goods-Basic Research	43
	R&D TOTAL				1,858
AC92	A T & T TECHNOLOGIES INC	N Carolina	ARMY	RDTE/Misc Hard Goods-Exploratory Developme	54-
	CLAMSHELL BUILDINGS INC	California	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	498
	DYNATECH CORPORATION	Mass	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	75

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	---R&D DESCRIPTION---	\$	
AC92 (CONTINUED)						
	FERRANTI COMPUTER SYSTEMS LTD	UNITED KINGDOM	NAVY	RDTE/Misc Hard Goods-Exploratory Development	\$ 157	
	GENERAL ELECTRIC CO	Ohio	NAVY	RDTE/Misc Hard Goods-Exploratory Development	3,118	
	HARRIS CORPORATION	Florida	USAF	RDTE/Misc Hard Goods-Exploratory Development	575	
	HONEYWELL INC	Minnesota	NAVY	RDTE/Misc Hard Goods-Exploratory Development	503	
		USAF	RDTE/Misc Hard Goods-Exploratory Development	50		
		COUNTRY TOTAL			553	
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Misc Hard Goods-Exploratory Development	407	
	LOCUS INC	Penn	NAVY	RDTE/Misc Hard Goods-Exploratory Development	519	
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Misc Hard Goods-Exploratory Development	216	
	OPTICAL SHIELDS LIMITED	California	NAVY	RDTE/Misc Hard Goods-Exploratory Development	449	
	SRI INTERNATIONAL	California	NAVY	RDTE/Misc Hard Goods-Exploratory Development	255	
	STANFORD LEELAND JUNIOR UNIV	California	NAVY	RDTE/Misc Hard Goods-Exploratory Development	89	
	UNIV MIT	Mass	NAVY	RDTE/Misc Hard Goods-Exploratory Development	180	
	UNIVERSITY OF ROCHESTER	New York	NAVY	RDTE/Misc Hard Goods-Exploratory Development	123	
	R&D TOTAL				7,160	
AC93	DISPLAYTECH INC	Colorado	NAVY	RDTE/Misc Hard Goods-Advanced Development	93	
	E G & G WASHINGTON ALALYTL SVC	Virginia	NAVY	RDTE/Misc Hard Goods-Advanced Development	2,827	
	KECO INDUSTRIES INC	Kentucky	ARMY	RDTE/Misc Hard Goods-Advanced Development	252	
	LOCKHEED ENGRG & MGT SVCS CO	Utah	ARMY	RDTE/Misc Hard Goods-Advanced Development	2,400	
	LORAL CORPORATION	Arizona	ARMY	RDTE/Misc Hard Goods-Advanced Development	143	
	M/A-COM INC	Mass	ARMY	RDTE/Misc Hard Goods-Advanced Development	154	
	MOTOROLA INC	Arizona	NAVY	RDTE/Misc Hard Goods-Advanced Development	468	
	NOAH HOWDEN INC	California	ARMY	RDTE/Misc Hard Goods-Advanced Development	41	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$
AC93 (CONTINUED)					
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Misc Hard Goods-Advanced Development	\$ 125
	S S G INC	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	100
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Misc Hard Goods-Advanced Development	201
	SCIPAR INCORPORATED	New York	USAF	RDTE/Misc Hard Goods-Advanced Development	70
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Misc Hard Goods-Advanced Development	152
	TEXAS RESEARCH INSTITUTE INC	Texas	NAVY	RDTE/Misc Hard Goods-Advanced Development	29
	UNISYS CORPORATION	Utah	USAF	RDTE/Misc Hard Goods-Advanced Development	47
	R&D TOTAL				7,102
AC94 A A I CORPORATION					
	BDM INTERNATIONAL INC	Maryland	ARMY	RDTE/Misc Hard Goods-Engr Development	2,187
	BRUNSWICK CORPORATION	Virginia	ARMY	RDTE/Misc Hard Goods-Engr Development	211
	CARTWRIGHT ELECTRONICS INC	Florida	ARMY	RDTE/Misc Hard Goods-Engr Development	290
		Arkansas	NAVY	RDTE/Misc Hard Goods-Engr Development	25
		California	NAVY	RDTE/Misc Hard Goods-Engr Development	1,678
	CONTRACTOR TOTAL				1,703
CREARE RESEARCH & DEVELOPMENT					
	DRAPER CHARLES STARK LAB INC	N. H.	NAVY	RDTE/Misc Hard Goods-Engr Development	49
	GENERAL DYNAMICS WESTINGHSE JV	Mass	NAVY	RDTE/Misc Hard Goods-Engr Development	267
	GENERAL ELECTRIC CO	California	NAVY	RDTE/Misc Hard Goods-Engr Development	5,800
		Alabama	NAVY	RDTE/Misc Hard Goods-Engr Development	62,300
		Mass	NAVY	RDTE/Misc Hard Goods-Engr Development	9,294
	CONTRACTOR TOTAL				71,594
HARSCO CORPORATION					
	I L C INDUSTRIES DELAWARE	Penn	ARMY	RDTE/Misc Hard Goods-Engr Development	292
		Delaware	ARMY	RDTE/Misc Hard Goods-Engr Development	854
			USAF	RDTE/Misc Hard Goods-Engr Development	33

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**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT ----- R&D DESCRIPTION -----
AC94 (CONTINUED)

		COUNTRY TOTAL		\$	
CONTRACTOR TOTAL	Maryland	ARMY	RDTE/Misc Hard Goods-Engr Development	554	554
K V H INDUSTRIES INC	Rhode Isld	NAVY	RDTE/Misc Hard Goods-Engr Development	242	242
LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Misc Hard Goods-Engr Development	50	50
MC DONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Misc Hard Goods-Engr Development	35,730	35,730
MODERN TECHNOLOGIES CORP	Ohio	USAF	RDTE/Misc Hard Goods-Engr Development	56	56
MULTI ELECTRIC MFG INC	Illinois	USAF	RDTE/Misc Hard Goods-Engr Development	1,886	1,886
PACCAR INC	Washington	USAF	RDTE/Misc Hard Goods-Engr Development	1,710	1,710
PACER SYSTEMS INC	Penn	NAVY	RDTE/Misc Hard Goods-Engr Development	40	40
SUNOL SCIENCES CORP	California	NAVY	RDTE/Misc Hard Goods-Engr Development	250	250
SYSTEMS ENGRG & MGT COMPANY	Ohio	USAF	RDTE/Misc Hard Goods-Engr Development	1,028	1,028
TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Misc Hard Goods-Engr Development	744	744
TVI CORPORATION	Maryland	ARMY	RDTE/Misc Hard Goods-Engr Development	325	325
UK MINDEF	UNITED KING	NAVY	RDTE/Misc Hard Goods-Engr Development	68	68
UNITED KINGDOM MINISTRY OF DEF	UNITED KING	NAVY	RDTE/Misc Hard Goods-Engr Development	4,735	4,735
R&D TOTAL				130,698	130,698
AC95 ANDRULIS RESEARCH CORP	Utah	ARMY	RDTE/Misc Hard Goods-Op Systems Developmen	2,006	2,006
BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Misc Hard Goods-Op Systems Developmen	201	201
BUNDESAMT FUER WEHRTECHNIK	GERMANY, F	ARMY	RDTE/Misc Hard Goods-Op Systems Developmen	127 -	127 -
C & M TECHNOLOGY INC	Conn	NAVY	RDTE/Misc Hard Goods-Op Systems Developmen	290	290
DYNAIR ELECTRONICS INC	California	NAVY	RDTE/Misc Hard Goods-Op Systems Developmen	30	30
ELECTRO COMMUNICATION SYSTEMS	Texas	NAVY	RDTE/Misc Hard Goods-Op Systems Developmen	35	35

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION		
AC95 (CONTINUED)						
	FEDERAL TECHNOLOGY CORP	Penn	NAVY	RDTE/Misc Hard	Goods-Op Systems Development	\$ 31
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Misc Hard	Goods-Op Systems Development	100
	MNEMONICS INC	Florida	NAVY	RDTE/Misc Hard	Goods-Op Systems Development	1,655
	NIGHT VISIONS SYS INC	Florida	NAVY	RDTE/Misc Hard	Goods-Op Systems Development	86
	NORDIC AERO INC	California	USAF	RDTE/Misc Hard	Goods-Op Systems Development	68
	RALOID CORPORATION	Maryland	NAVY	RDTE/Misc Hard	Goods-Op Systems Development	1,285
	ROWE DEINES INSTRUMENTS INC	California	NAVY	RDTE/Misc Hard	Goods-Op Systems Development	110
	TERABIT COMPUTER ENGINEERING	Utah	NAVY	RDTE/Misc Hard	Goods-Op Systems Development	31
	WYLE LABORATORIES	California	USAF	RDTE/Misc Hard	Goods-Op Systems Development	202
	R&D TOTAL					6,003
AC96	CONTRAVES GOERZ CORPORATION	Penn	USAF	RDTE/Misc Hard	Goods-Mgmt & Support	1,491
	FIRESTONE INC	Ohio	NAVY	RDTE/Misc Hard	Goods-Mgmt & Support	76
	MOLTEN SALT TECHNOLOGY INC	Tennessee	USAF	RDTE/Misc Hard	Goods-Mgmt & Support	400
	OPTIVISION INC	California	NAVY	RDTE/Misc Hard	Goods-Mgmt & Support	50
	PERFECT VIEW INC	N Carolina	USAF	RDTE/Misc Hard	Goods-Mgmt & Support	101
	PHYSICAL DYNAMICS INC	California	NAVY	RDTE/Misc Hard	Goods-Mgmt & Support	49
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Misc Hard	Goods-Mgmt & Support	675
	STRAINOPTIC TECHNOLOGIES INC	Penn	NAVY	RDTE/Misc Hard	Goods-Mgmt & Support	50
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Misc Hard	Goods-Mgmt & Support	1,175
	VISTA SCIENTIFIC CORPORATION	Penn	NAVY	RDTE/Misc Hard	Goods-Mgmt & Support	110
	WYLE LABORATORIES	California	USAF	RDTE/Misc Hard	Goods-Mgmt & Support	308
	R&D TOTAL	Maryland	ARMY	RDTE/Ammunition-Basic Research		4,485
AD11	A A I CORPORATION					91

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD11 (CONTINUED)						
				COUNTRY TOTAL		
	ASSURANCE TECHNOLOGY CORP	Mass	NAVY	RDTE/Ammunition-Basic Research	\$ 447	
	COBRO CORPORATION	Missouri	ARMY	RDTE/Ammunition-Basic Research	285	
	GEO CENTERS INC	D.C.	NAVY	RDTE/Ammunition-Basic Research	132	
	HERCULES INCORPORATED	W Virginia	USAF	RDTE/Ammunition-Basic Research	698	
	MITECH INC	D.C.	NAVY	RDTE/Ammunition-Basic Research	89	
	OPTICAL SHIELDS LIMITED	California	ARMY	RDTE/Ammunition-Basic Research	48	
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Ammunition-Basic Research	43	
	SCOT INCORPORATED	Illinois	USAF	RDTE/Ammunition-Basic Research	503	
	SUSQUEHANNA RESOURCES ENVIRONMENT	New York	ARMY	RDTE/Ammunition-Basic Research	170	
	THIOKOL CORPORATION	Utah	NAVY	RDTE/Ammunition-Basic Research	243	
	VERITAY TECHNOLOGY INC	New York	NAVY USAF	RDTE/Ammunition-Basic Research RDTE/Ammunition-Basic Research	50 50	
				COUNTRY TOTAL	100	
	R&D TOTAL				3,050	
AD12	A A I CORPORATION	Maryland	ARMY	RDTE/Ammunition-Exploratory Development		
	AEROJET	California	ARMY	RDTE/Ammunition-Exploratory Development	2,530	
	ASP CONSORTIUM	California	ARMY	RDTE/Ammunition-Exploratory Development	330	
	AVCO CORPORATION	Mass	ARMY	RDTE/Ammunition-Exploratory Development	9,088	
	BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Ammunition-Exploratory Development	763	
	BOEING COMPANY THE	Washington	USAF	RDTE/Ammunition-Exploratory Development	323	
	CALSPAN CORPORATION	New York	USAF	RDTE/Ammunition-Exploratory Development	290	
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Ammunition-Exploratory Development	375	
					244	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD12 (CONTINUED)					
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE / Ammunition-Exploratory Development	290
	GEO CENTERS INC	Mass	ARMY	RDTE / Ammunition-Exploratory Development	311
	GIRINDUS CORP	GERMANY, F	NAVY	RDTE / Ammunition-Exploratory Development	148
	HONEYWELL INC	Minnesota	ARMY	RDTE / Ammunition-Exploratory Development	2,467
	MAXWELL LABORATORIES INC	California	NAVY	RDTE / Ammunition-Exploratory Development	850
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE / Ammunition-Exploratory Development	296
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE / Ammunition-Exploratory Development	400
	N K F ENGINEERING INC	Virginia	NAVY	RDTE / Ammunition-Exploratory Development	250
	OLIN CORPORATION	Conn	NAVY	RDTE / Ammunition-Exploratory Development	697
		Illinois	ARMY	RDTE / Ammunition-Exploratory Development	736
	CONTRACTOR TOTAL				
	ORTEL CORPORATION	California	NAVY	RDTE / Ammunition-Exploratory Development	440
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE / Ammunition-Exploratory Development	60
	XMCO INC	New York	NAVY	RDTE / Ammunition-Exploratory Development	158
	R&D TOTAL				
AD13	AEROJET	California	ARMY	RDTE / Ammunition-Advanced Development	210
	AEROJET ELECTRO SYSTEMS	California	ARMY	RDTE / Ammunition-Advanced Development	4,194
	AEROJET ORDNANCE	Tennessee	ARMY	RDTE / Ammunition-Advanced Development	531
	ATLANTIC RESEARCH CORPORATION	Arkansas	USAF	RDTE / Ammunition-Advanced Development	174
	AVCO CORPORATION	Mass	ARMY	RDTE / Ammunition-Advanced Development	4,267
	BRUNSWICK CORPORATION	Virginia	ARMY	RDTE / Ammunition-Advanced Development	186
	FERRANTI INSTRUMENTATION, ZON LTD	UNITED KINGDOM	ARMY	RDTE / Ammunition-Advanced Development	208
	GENERAL DEFENSE CORPORATION	Penn	ARMY	RDTE / Ammunition-Advanced Development	95

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	100
AD13 (CONTINUED)						
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Ammunition-Advanced Development		
	GENERAL ELECTRIC CO	Maryland	ARMY	RDTE/Ammunition-Advanced Development	7	225
		Vermont	ARMY	RDTE/Ammunition-Advanced Development	204	
	CONTRACTOR TOTAL				7,429	
	HARRIS CORPORATION	Florida	NAVY	RDTE/Ammunition-Advanced Development	378	
	HERCULES INCORPORATED	W Virginia	ARMY	RDTE/Ammunition-Advanced Development	29,750	
	HONEYWELL INC	Minnesota	ARMY	RDTE/Ammunition-Advanced Development	25,960	
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Ammunition-Advanced Development	5,298	
	OLIN CORPORATION	Florida	ARMY	RDTE/Ammunition-Advanced Development	275	
		Illinois	ARMY	RDTE/Ammunition-Advanced Development	2,132	
	CONTRACTOR TOTAL				2,407	
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Ammunition-Advanced Development	2,130	
	POLYMER TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Ammunition-Advanced Development	46	
	RAYTHEON COMPANY	Mass	ARMY	RDTE/Ammunition-Advanced Development	224	
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Ammunition-Advanced Development	205	
	STANFORD LEELAND JUNIOR UNIV	California	ARMY	RDTE/Ammunition-Advanced Development	1,094	
	WESTERN DESIGN CORPORATION	California	ARMY	RDTE/Ammunition-Advanced Development	422	
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Ammunition-Advanced Development	200	
	R&D TOTAL				85,508	
AD14	AERJET	California	ARMY	RDTE/Ammunition-Engineering Development	75,912	
	BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Ammunition-Engineering Development	2,307	
	COCKERHAM JOHN M & ASSOCIATES	Iowa	ARMY	RDTE/Ammunition-Engineering Development	141	
	DYNAMIT NOBEL AG	GERMANY, F	ARMY	RDTE/Ammunition-Engineering Development	300	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION
AD14 (CONTINUED)					
	ELECTRODYNAMICS INC	Illinois	ARMY	RDTE/Ammunition-Engineering Development	\$ 2,344
	EMERSON ELECTRIC CO	Missouri	ARMY	RDTE/Ammunition-Engineering Development	2,810
	EVEREADY BATTERY CO INC	Vermont	ARMY	RDTE/Ammunition-Engineering Development	1,553
	HONEYWELL INC	Minnesota	ARMY	RDTE/Ammunition-Engineering Development	37,448
	ISC DEFENSE SYSTEMS INC	Penn	NAVY	RDTE/Ammunition-Engineering Development	1,000
	LOGI TECH ENGINEER RESOURCES	Virginia	NAVY	RDTE/Ammunition-Engineering Development	50
	MOTOROLA INC	Arizona	ARMY	RDTE/Ammunition-Engineering Development	28,135
	NORTH AMERICAN DYNAMICS	California	USAF	RDTE/Ammunition-Engineering Development	54
	SPARTA INC	California	ARMY	RDTE/Ammunition-Engineering Development	500
	SUNSTRAND CORPORATION	Illinois	NAVY	RDTE/Ammunition-Engineering Development	7,674
	TALLEY DEFENSE SYSTEMS INC	Arizona	ARMY	RDTE/Ammunition-Engineering Development	106
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Ammunition-Engineering Development	42
	WAGNER CASTINGS COMPANY	Illinois	ARMY	RDTE/Ammunition-Engineering Development	771
	R&D TOTAL				161,147
AD15	OLIN CORPORATION	Illinois	ARMY	RDTE/Ammunition-Operational Systems Develo	559
AD16	ADVANCED OPTICAK SYS	Alabama	USAF	RDTE/Ammunition-Management & Support	47
	APPLIED CONCEPTS CORP	Virginia	ARMY	RDTE/Ammunition-Management & Support	607
	DYNA EAST CORPORATION	Penn	NAVY USAF	RDTE/Ammunition-Management & Support RDTE/Ammunition-Management & Support	72 487
	COUNTRY TOTAL				559
	GEO CENTERS INC	Mass	ARMY	RDTE/Ammunition-Management & Support	991
	MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Ammunition-Management & Support	52
	MTA INC	Alabama	ARMY	RDTE/Ammunition-Management & Support	550

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		(AMOUNTS IN THOUSANDS)						
R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION				
AD16 (CONTINUED)								
	NICHOLLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Ammunition-Management & Support	\$	167		
	SPARTA INC	California	NAVY	RDTE/Ammunition-Management & Support		49		
R&D TOTAL						3,022		
AD21	ADVANCED TECHNOLOGY INC	Virginia	NAVY	RDTE/Services-Basic Research		38		
	ADVERTISING COUNCIL INC	D.C.	ARMY	RDTE/Services-Basic Research		300		
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Services-Basic Research		75		
	AMERICAN TELE & TELG COMPANY	N Carolina	NAVY	RDTE/Services-Basic Research		958		
	ANALYTIC SCIENCES CORP THE	Mass	ARMY	RDTE/Services-Basic Research		550		
	APD CRYOGENICS INC	Penn	NAVY	RDTE/Services-Basic Research		46		
	ARMAMENT SYSTEMS INC	California	NAVY	RDTE/Services-Basic Research		1,743		
	BERMAN WEILER ASSOCIATES	PHILIPPINE	ARMY	RDTE/Services-Basic Research		327		
	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Services-Basic Research		320		
	DEERE JOHN CAPITAL CORP	Illinois	ARMY	RDTE/Services-Basic Research		25		
	ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Services-Basic Research		650		
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Services-Basic Research		170		
	ELECTRONIC WARFARE ASSOCIATES	Virginia	ARMY	RDTE/Services-Basic Research		800		
	ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Services-Basic Research		65		
	ENGINEERING COMPUTER OPTECNOMICS	Maryland	NAVY	RDTE/Services-Basic Research		283		
	FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Services-Basic Research		471		
	GEO CENTERS INC	Mass	ARMY	RDTE/Services-Basic Research		563		
		New Jersey	ARMY	RDTE/Services-Basic Research		235		
	CONTRACTOR TOTAL					798		
	GOUGH PAUL ASSOCIATES INC	N.H.	ARMY	RDTE/Services-Basic Research		32		

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD21 (CONTINUED)						
	HONEYWELL INC	Minnesota	USAF	RDTE/Services-Basic Research	\$ 35	
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Services-Basic Research	124	
		Tennessee	NAVY	RDTE/Services-Basic Research	5,500	
	CONTRACTOR TOTAL					
	INTERCONTINENTAL METALS EXPORTS	Florida	NAVY	RDTE/Services-Basic Research	50	
	IRVINE SENSORS CORPORATION	California	NAVY	RDTE/Services-Basic Research	52	
	LERON ASSOCIATES	New Jersey	ARMY	RDTE/Services-Basic Research	85	
	LSQUARE TECH INC	New Mexico	USAF	RDTE/Services-Basic Research	50	
	LTV AEROSPACE & DEF CO	Texas	NAVY	RDTE/Services-Basic Research	49	
	MAC AULAY BROWN INC	Ohio	NAVY	RDTE/Services-Basic Research	75	
		COUNTRY TOTAL				
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Basic Research	175	
	MATERIALS SCIENCES CORP	Penn	ARMY	RDTE/Services-Basic Research	350	
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Services-Basic Research	385	
	NEW HAMPSHIRE UNIVERSITY SYS	N.H.	NAVY	RDTE/Services-Basic Research	966	
	NEW YORK UNIVERSITY	New York	ARMY	RDTE/Services-Basic Research	122	
	NORTHEASTERN UNIVERSITY CORP	Mass	ARMY	RDTE/Services-Basic Research	50	
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Services-Basic Research	167	
		California	ARMY	RDTE/Services-Basic Research	1,540	
	CONTRACTOR TOTAL					
	SLOSS LEON ASSOCIATES INC	D.C.	ARMY	RDTE/Services-Basic Research	5,736	
	SOFTWARE ARCHITECTURE & ENGRG	Virginia	NAVY	RDTE/Services-Basic Research	7,276	
					37	
					666	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD21 (CONTINUED)					
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Basic Research	463
		Rhode Isld	NAVY	RDTE/Services-Basic Research	180
	CONTRACTOR TOTAL				643
	STATISTICA INC	Maryland	ARMY	RDTE/Services-Basic Research	3,680
	SYMETRIX CORPORATION	Colorado	NAVY	RDTE/Services-Basic Research	470
	SYSCON CORPORATION	Rhode Isld	NAVY	RDTE/Services-Basic Research	45
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Services-Basic Research	119
	SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Services-Basic Research	120
	T P L INC	New Mexico	NAVY	RDTE/Services-Basic Research	46
	TECHNICAL & MGT SVCS CORP	Ohio	USAF	RDTE/Services-Basic Research	132
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Services-Basic Research	84
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Services-Basic Research	125
	R&D TOTAL				29,254
AD22	A F LEHMAN ASSOCIATES	New York	NAVY	RDTE/Services-Exploratory Development	55
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY NAVY	RDTE/Services-Exploratory Development RDTE/Services-Exploratory Development	338 483
	COUNTRY TOTAL				821
	AEROLAB	Rhode Isld	NAVY	RDTE/Services-Exploratory Development	240
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Exploratory Development	323
	ANALYTIC SCIENCES CORP THE	Ohio	USAF	RDTE/Services-Exploratory Development	415
	ANALYTICS INCORPORATED	Penn	NAVY	RDTE/Services-Exploratory Development	191
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Exploratory Development	122
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Exploratory Development	461

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD22 (CONTINUED)						
	AVCO CORPORATION	Mass	ARMY	RDTE/Services-Exploratory Development	\$ 313	
	B K DYNAMICS INC	D.C.	NAVY	RDTE/Services-Exploratory Development	75	
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Services-Exploratory Development	110	
	BDM INTERNATIONAL INC	Kentucky	ARMY	RDTE/Services-Exploratory Development	675	
		New Mexico	USAF	RDTE/Services-Exploratory Development	125	
	CONTRACTOR TOTAL				800	
	CAMPBELL KRONAUER ASSOCIATES	Conn	NAVY	RDTE/Services-Exploratory Development	40	
	CHASE INC	Mass	NAVY	RDTE/Services-Exploratory Development	86	
	CHI SYSTEMS INC	Penn	ARMY	RDTE/Services-Exploratory Development	56	
	COLSA INC	Alabama	ARMY	RDTE/Services-Exploratory Development	2,000	
	DAEDALUS ENTERPRISES INC	Michigan	ARMY	RDTE/Services-Exploratory Development	189	
	DECISION SCIENCE APPLICATIONS	Virginia	NAVY	RDTE/Services-Exploratory Development	973	
	DIRECTED TECHNOLOGIES INC	Virginia	NAVY	RDTE/Services-Exploratory Development	123	
	DYNATHERM CORPORATION	Maryland	ARMY	RDTE/Services-Exploratory Development	98	
	E P L ANALYSIS INC	Maryland	NAVY	RDTE/Services-Exploratory Development	45	
	ELECTROMAGNETIC LAUNCH RES	Mass	ARMY	RDTE/Services-Exploratory Development	700	
	ESL INCORPORATED	California	NAVY	RDTE/Services-Exploratory Development	119	
	EVALUATION ASSOCIATES	Penn	NAVY	RDTE/Services-Exploratory Development	31	
	FMC CORPORATION	Minnesota	ARMY NAVY	RDTE/Services-Exploratory Development	48 153	
	COUNTRY TOTAL				201	
	FOSTER MILLER INC	Mass	ARMY	RDTE/Services-Exploratory Development	58	
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Services-Exploratory Development	850	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD22 (CONTINUED)					
	GENERAL ELECTRIC CO	New York	NAVY	RDTE/Services-Exploratory Development	\$ 170
	GENERAL PHYSICS CORPORATION	Florida	NAVY	RDTE/Services-Exploratory Development	1,030
	HONEYWELL INC	Minnesota	USAF	RDTE/Services-Exploratory Development	162
	I T RESEARCH INSTITUTE	Maryland	ARMY	RDTE/Services-Exploratory Development	72
	I NET INC	Maryland	NAVY	RDTE/Services-Exploratory Development	1,690
	INFORMATION RESOURCES TECH	Virginia	NAVY	RDTE/Services-Exploratory Development	1,731
	INTERFEROMETRICS INC	Virginia	ARMY	RDTE/Services-Exploratory Development	150
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Services-Exploratory Development	150
	LIFE CYCLE ENGINEERING INC	S Carolina	NAVY	RDTE/Services-Exploratory Development	35
	LITTON SYSTEMS INC	California	USAF	RDTE/Services-Exploratory Development	255
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Exploratory Development	98
	MANDEX INC	Virginia	NAVY	RDTE/Services-Exploratory Development	153
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Services-Exploratory Development	9,785
		Maryland	NAVY	RDTE/Services-Exploratory Development	553
	CONTRACTOR TOTAL				10,338
	MASSACHSETTS INST OF TECHNOLOGY	Mass	NAVY	"DTE/Services-Exploratory Development	175
	MICRO ANALYSIS AND DESIGN INC	Colorado	ARMY	RDTE/Services-Exploratory Development	231
	MICRO SYSTEMS CONSULTANTS	New Jersey	ARMY	RDTE/Services-Exploratory Development	43
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Services-Exploratory Development	668
		New Mexico	NAVY	RDTE/Services-Exploratory Development	2,071
	CONTRACTOR TOTAL				2,739
	MONTGOMERY RICHARD A INC DBA	California	ARMY	RDTE/Services-Exploratory Development	183
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Services-Exploratory Development	520

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD22 (CONTINUED)						
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Services-Exploratory Development	\$ 40	
	OLD DMNION UNIV RES FOUNDATION	Virginia	NAVY	RDTE/Services-Exploratory Development	63	
	OPTELECOM INC	Conn	NAVY	RDTE/Services-Exploratory Development	63	
	ORINCON CORPORATION	California	NAVY	RDTE/Services-Exploratory Development	567	
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Exploratory Development	327	
	PHOENIX DIGITAL CORPORATION	Arizona	NAVY	RDTE/Services-Exploratory Development	50	
	QUEST RESEARCH CORPORATION	Virginia	ARMY	RDTE/Services-Exploratory Development	764	
	RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Services-Exploratory Development	245	
	SCIENCE APPLICATIONS INTL CORP	Hawaii	NAVY	RDTE/Services-Exploratory Development	100	
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Exploratory Development	335	
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Services-Exploratory Development	509	
	SPECTRON DEVELOPMENT LABS	California	NAVY	RDTE/Services-Exploratory Development	134	
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Services-Exploratory Development	200	
	SYSTEMS TECHNOLOGY INC	California	NAVY	RDTE/Services-Exploratory Development	99	
	TECHNICAL & MGT SVCS CORP	New Jersey	ARMY	RDTE/Services-Exploratory Development	140	
	TECHNICAL SERVICES GROUP	Ohio	USAF	RDTE/Services-Exploratory Development	473	
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Exploratory Development	448	
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Services-Exploratory Development	2,050	
	UNIVERSITY OF RHODE ISLAND	Rhode Isld	NAVY	RDTE/Services-Exploratory Development	38	
	UNIVERSITY OF ROCHESTER	New York	NAVY	RDTE/Services-Exploratory Development	64	
	UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Services-Exploratory Development	53	
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Services-Exploratory Development	111	
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Services-Exploratory Development	40	

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
(AMOUNTS IN THOUSANDS)						
AD23 (CONTINUED)						
	COMPUTER SCIENCES CORPORATION	Florida		NAVY RDTE/Services-Advanced Development	144	
		Penn		NAVY RDTE/Services-Advanced Development	363	
	CONTRACTOR TOTAL				507	
CRAFTSMEN CORP	Ohio		USAF	RDTE/Services-Advanced Development	38-	
CRYSTAL SYSTEMS INC	Mass		NAVY	RDTE/Services-Advanced Development	250	
CULHAM LABORATORY	UNITED KING		ARMY	RDTE/Services-Advanced Development	500	
E G & G WASHINGTON ANALYTIC SVC	Conn		NAVY	RDTE/Services-Advanced Development	2,050	
	Maryland		NAVY	RDTE/Services-Advanced Development	31	
CONTRACTOR TOTAL					2,081	
EDO CORPORATION	New York		NAVY	RDTE/Services-Advanced Development	210	
ELDYNE INC	Conn		NAVY	RDTE/Services-Advanced Development	32	
ENGINEERING & ECONOMICS RES	Rhode Island		NAVY	RDTE/Services-Advanced Development	73	
ENTWISTLE COMPANY (INC)	Mass		NAVY	RDTE/Services-Advanced Development	26	
EPOCH ENGINEERING INC	Maryland		NAVY	RDTE/Services-Advanced Development	150	
FIBERTEK INC	Virginia		ARMY	RDTE/Services-Advanced Development	150	
FLORIDA STATE UNIVERSITY	Florida		NAVY	RDTE/Services-Advanced Development	100	
FREQUENCY DEVICES INC	Mass		NAVY	RDTE/Services-Advanced Development	39	
FUZETRON INC	California		NAVY	RDTE/Services-Advanced Development	40	
G K Y & ASSOCIATES INC	Virginia		NAVY	RDTE/Services-Advanced Development	31	
GENERAL DYNAMICS CORPORATION	Conn		NAVY	RDTE/Services-Advanced Development	757	
GENERAL ELECTRIC CO	Penn		NAVY	RDTE/Services-Advanced Development	27	
GENERAL RESEARCH CORPORATION	California		USAF	RDTE/Services-Advanced Development	1,818	
GEORGIA TECH RESEARCH INST	Georgia		NAVY	RDTE/Services-Advanced Development	75	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD23 (CONTINUED)						
	GIORDANO ASSOCIATES INC	New Jersey	ARMY	RDTE/Services-Advanced Development	\$ 77	
	GOUGH PAUL ASSOCIATES INC	N. H.	ARMY	RDTE/Services-Advanced Development	71	
	HOLOGRAPHIC OPTICS INC	New York	NAVY	RDTE/Services-Advanced Development	216	
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Advanced Development	1,187	
	HYDROACOUSTICS INC	New York	NAVY	RDTE/Services-Advanced Development	53	
	I I T RESEARCH INSTITUTE	California	NAVY	RDTE/Services-Advanced Development	110	
	ILLINOIS	USAF	RDTE/Services-Advanced Development	2,817		
	Tennessee	NAVY	RDTE/Services-Advanced Development	360		
	CONTRACTOR TOTAL				3,287	
	INFORMATION SPECTRUM INC	New Jersey	NAVY	RDTE/Services-Advanced Development	172	
	INFORMTION SYSTEMS NTRWKS CORP	Ohio	USAF	RDTE/Services-Advanced Development	79	
	INTEGRATED SYSTEMS ANALYSIS	California	NAVY	RDTE/Services-Advanced Development	709	
		Virginia	NAVY	RDTE/Services-Advanced Development	30	
	CONTRACTOR TOTAL				739	
	INTEGRITD TEST & EVAL COOPERATV	California	NAVY	RDTE/Services-Advanced Development	100	
	INTERFEROMETRICS INC	Virginia	NAVY	RDTE/Services-Advanced Development	263	
	INTERMETRICS INC	Penn	NAVY	RDTE/Services-Advanced Development	1,947	
	K M S FUSION INC	Michigan	NAVY	RDTE/Services-Advanced Development	517	
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Advanced Development	50	
	MAGNAVOX COMPANY INC	New York	NAVY	RDTE/Services-Advanced Development	161	
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Services-Advanced Development	30	
	MC DONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Services-Advanced Development	30-	
	MC LAUGHLIN RESEARCH CORP	Conn	NAVY	RDTE/Services-Advanced Development	232	

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(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT R&D DESCRIPTION
AD23 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
	MINE SAFETY APPLS COMPANY	Maryland	USAF	RDTE/Services-Advanced Development	\$ 28	28
	MINISTRY OF DEFENSE UK	UNITED KINGDOM	ARMY	RDTE/Services-Advanced Development	260	260
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Services-Advanced Development	111	111
	New Mexico	ARMY	NAVY	RDTE/Services-Advanced Development	2,730	2,730
				RDTE/Services-Advanced Development	1,196	1,196
				RDTE/Services-Advanced Development	198	198
				RDTE/Services-Advanced Development	50	50
				COUNTRY TOTAL	248	248
	CONTRACTOR TOTAL				1,444	
	MODERN TECHNOLOGIES CORP	Ohio	USAF	RDTE/Services-Advanced Development	861	861
	MYSTECH ASSOCIATES INC	Conn	NAVY	RDTE/Services-Advanced Development	275	275
	NEW ENGLAND TECHNICAL SERVICES	Rhode Island	NAVY	RDTE/Services-Advanced Development	35	35
	OCEAN & ATMOSPHERIC SCIENCE	New York	NAVY	RDTE/Services-Advanced Development	50	50
	OCEAN TECHNOLOGY INC	Rhode Island	NAVY	RDTE/Services-Advanced Development	80	80
	P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Services-Advanced Development	41	41
		Penn	NAVY	RDTE/Services-Advanced Development	793	793
	CONTRACTOR TOTAL				834	
	PAR TECHNOLOGY CORPORATION	Colorado	USAF	RDTE/Services-Advanced Development	4,874	4,874
	PARKER KINETIC DESIGN INC	Texas	ARMY	RDTE/Services-Advanced Development	500	500
	PEAT MARWICK MAIN & CO	Conn	NAVY	RDTE/Services-Advanced Development	50	50
	PENNSYLVANIA STATE UNIV THE	Penn	NAVY	RDTE/Services-Advanced Development	42	42
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Services-Advanced Development	3,240	3,240
	PROFESSIONAL SERVICE INDUSTRS	Virginia	NAVY	RDTE/Services-Advanced Development	487	487

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD23 (CONTINUED)						
	QUEST RESEARCH CORPORATION	Virginia	USAF	RDTE/Services-Advanced Development	\$ 1,208	
	QUESTECH INC	Virginia	ARMY	RDTE/Services-Advanced Development	912	
	R B C INCORPORATED	Virginia	NAVY	RDTE/Services-Advanced Development	30	
	R J O ENTERPRISES INC	Ohio	USAF	RDTE/Services-Advanced Development	203	
	RAIL COMPANY	Virginia	ARMY	RDTE/Services-Advanced Development	653	
	RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Services-Advanced Development	249	
	ROME RESEARCH CORP	New York	USAF	RDTE/Services-Advanced Development	130	
	SAFT AMERICA INC	Maryland	USAF	RDTE/Services-Advanced Development	228	
	SANDERS ASSOCIATES INC	N.H.	NAVY	RDTE/Services-Advanced Development	172	
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Services-Advanced Development	1,394	
			USAF	RDTE/Services-Advanced Development	1,389	
		COUNTRY TOTAL			2,783	
	SIXD B CORP	Maryland	NAVY	RDTE/Services-Advanced Development	547	
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Advanced Development	2,062	
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Services-Advanced Development	171	
	STERLING FEDERAL SYSTEMS INC	California	NAVY	RDTE/Services-Advanced Development	38	
	SYSCON CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development	150	
		Rhode Isld	NAVY	RDTE/Services-Advanced Development	583	
		CONTRACTOR TOTAL			733	
	SYSTEMS RESOURCE MANAGEMENT	Rhode Isld	NAVY	RDTE/Services-Advanced Development	224	
	T S C INC	Conn	NAVY	RDTE/Services-Advanced Development	208	
	TECHNICAL & MGT SVCS CORP	Ohio	USAF	RDTE/Services-Advanced Development	103	
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Advanced Development	276	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD23 (CONTINUED)					
	TRACOR HYDRONAUTICS INC	Maryland	NAVY	RDTE/Services-Advanced Development	\$ 400
	TRACOR MARINE INC	Florida	NAVY	RDTE/Services-Advanced Development	416
	TRW INC	California	NAVY USAF	RDTE/Services-Advanced Development RDTE/Services-Advanced Development	538 253
		COUNTRY TOTAL			791
		Virginia	NAVY	RDTE/Services-Advanced Development	1,277
	CONTRACTOR TOTAL	Alabama	NAVY	RDTE/Services-Advanced Development	2,068
	UNISYS CORPORATION	Penn	NAVY	RDTE/Services-Advanced Development	49
	UNITED INTERNATIONAL ENGRG	New Mexico	NAVY	RDTE/Services-Advanced Development	211
	VIRGINIA POLYTECHNIC INST/ST UNI	Virginia	NAVY	RDTE/Services-Advanced Development	50
	VITRO CORPORATION	California	NAVY	RDTE/Services-Advanced Development	100
		Rhode Isld	NAVY	RDTE/Services-Advanced Development	117
	CONTRACTOR TOTAL	Penn	NAVY	RDTE/Services-Advanced Development	73
	WAGNER DANIEL H ASSOCIATES	N Carolina	USAF	RDTE/Services-Advanced Development	190
	WALLACE & CO	Ohio	USAF	RDTE/Services-Advanced Development	87
		CONTRACTOR TOT .L			2,995
	R&D TOTAL				60,187
AD24 A/G TECHNOLOGY CORP					
	ADVANCED TECHNOLOGY & RESEARCH	Mass	USAF	RDTE/Services-Engineering Development	260
		Maryland	ARMY NAVY	RDTE/Services-Engineering Development RDTE/Services-Engineering Development	675 287
		COUNTRY TOTAL			962
	ALLIED SIGNAL AEROSPACE CO	Maryland	ARMY	RDTE/Services-Engineering Development	124

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD24 (CONTINUED)					
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Engineering Development	\$ 2,794
	Florida	NAVY	RDTE/Services-Engineering Development		5,060
	Rhode Isld	NAVY	RDTE/Services-Engineering Development		50
	Virginia	NAVY	RDTE/Services-Engineering Development		162
	CONTRACTOR TOTAL				8,066
	ANALYTIC SCIENCES CORP THE	Ohio	USAF	RDTE/Services-Engineering Development	2,052
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Engineering Development	808
		Rhode Isld	NAVY	RDTE/Services-Engineering Development	155
	CONTRACTOR TOTAL				963
	AQUIDNECK MGT ASSOC LTD	Conn	NAVY	RDTE/Services-Engineering Development	273
		Rhode Isld	NAVY	RDTE/Services-Engineering Development	298
	CONTRACTOR TOTAL				571
	AQUIDNECK SYSTEMS INTL	Rhode Isld	NAVY	RDTE/Services-Engineering Development	69
	ARETE ASSOCIATES	California	NAVY	RDTE/Services-Engineering Development	165
	ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Services-Engineering Development	519
			USAF	RDTE/Services-Engineering Development	122
	COUNTRY TOTAL				641
		Maryland	USAF	RDTE/Services-Engineering Development	750
	CONTRACTOR TOTAL				1,391
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Engineering Development	60
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Services-Engineering Development	80
	AVCO CORPORATION	Conn	ARMY	RDTE/Services-Engineering Development	999
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Services-Engineering Development	1,094

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD24 (CONTINUED)						
	BERLIN S INC	California	NAVY	RDTE/Services-Engineering Development	\$ 46	
	BOEING COMPANY THE	Alabama	USAF	RDTE/Services-Engineering Development	1,743	
	Kansas	USAF	RDTE/Services-Engineering Development		50	
	Washington	NAVY	RDTE/Services-Engineering Development		55	
	CONTRACTOR TOTAL					
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Services-Engineering Development	453	
	C & M TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Engineering Development	100	
	CAMBRIDGE ACOUSTICAL ASSOC	Mass	NAVY	RDTE/Services-Engineering Development	428	
	CAMPBELL KRONAUER ASSOCIATES	Mass	NAVY	RDTE/Services-Engineering Development	375	
	CHASE INC	Mass	NAVY	RDTE/Services-Engineering Development	41	
	COLUMBIA RESEARCH CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development	123	
	COMPUTER SCIENCES CORPORATION	California	USAF	RDTE/Services-Engineering Development	1,365	
	COMPUTER SOFTWARE ANALYSTS	Penn	NAVY	RDTE/Services-Engineering Development	805	
	CPT CORPORATION	Ohio	USAF	RDTE/Services-Engineering Development	38	
	CRAFTSMEN CORP	Maryland	NAVY	RDTE/Services-Engineering Development	1,209	
	DAEDALEAN INC	Penn	NAVY	RDTE/Services-Engineering Development	790	
	DATANAMICS COMPUTER CORP	Virginia	NAVY	RDTE/Services-Engineering Development	59	
	DCS CORPORATION	Minnesota	ARMY	RDTE/Services-Engineering Development	100-	
	DONALDSON COMPANY INC	Rhode Isld	NAVY	RDTE/Services-Engineering Development	741-	
	DYNAMICS RESEARCH CORPORATION	California	NAVY	RDTE/Services-Engineering Development	45-	
	DYNAMICS TECHNOLOGY	Conn	NAVY	RDTE/Services-Engineering Development	256	
	E G & G WASHINGTON ALALYTIC SVC	Virginia	NAVY	RDTE/Services-Engineering Development	84	
					91	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	175
CONTRACTOR TOTAL						
EAGLE TECHNOLOGY INC	New Jersey	ARMY	RDTE/Services-Engineering Development			559
ELDYNE INC	Conn	NAVY	RDTE/Services-Engineering Development			34
ELECTRO RADIATION INC	New Jersey	USAF	RDTE/Services-Engineering Development			653
ENGINEERING & ECONOMICS RES	Virginia	USAF	RDTE/Services-Engineering Development			97
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Services-Engineering Development			48
ESSEX CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development			256
GEMMA CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development			130
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Engineering Development			2,596
Texas	USAF	RDTE/Services-Engineering Development				3,046
CONTRACTOR TOTAL						5,642
GENERAL ELECTRIC CO	New Jersey	NAVY	RDTE/Services-Engineering Development			24,352
		USAF	RDTE/Services-Engineering Development			99
COUNTRY TOTAL						
	Virginia	NAVY	RDTE/Services-Engineering Development			24,451
CONTRACTOR TOTAL						
GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Services-Engineering Development			9,456
GIORDANO ASSOCIATES INC	New Jersey	ARMY	RDTE/Services-Engineering Development			33,907
GNOSTECH INC	Penn	NAVY	RDTE/Services-Engineering Development			500
GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Services-Engineering Development			254
GUMBS ASSOCIATES INC	New Jersey	NAVY	RDTE/Services-Engineering Development			50
HAMMELL THOMAS J	Conn	NAVY	RDTE/Services-Engineering Development			233
HARRIS CORPORATION	Florida	NAVY	RDTE/Services-Engineering Development			49
						52
						507

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD24 (CONTINUED)						
	HEWLETT PACKARD COMPANY	Maryland	NAVY	RDTE/Services-Engineering Development	\$	42
		Penn	NAVY	RDTE/Services-Engineering Development		59
	CONTRACTOR TOTAL					101
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Engineering Development		247
	INFORMATION NETWORK SYSTEMS	Penn	NAVY	RDTE/Services-Engineering Development		29
	INFROMATION SYSTEMS NTWRKS CORP	Ohio	USAF	RDTE/Services-Engineering Development		150
	INFOTEC DEVELOPMENT INC	Ohio	USAF	RDTE/Services-Engineering Development		55
	INTEGRATED SYSTEMS ANALYSTS	Conn	NAVY	RDTE/Services-Engineering Development		115
		Virginia	NAVY	RDTE/Services-Engineering Development		1,277
	CONTRACTOR TOTAL					1,392
	INTERMETRICS INC	Penn	NAVY	RDTE/Services-Engineering Development		1,611
	INTERNTNL MSRMENT CTRL CMPNY	Colorado	NAVY	RDTE/Services-Engineering Development		39
	INTERTEST CORPORATION	California	NAVY	RDTE/Services-Engineering Development		38
	JANIS RESEARCH COMPANY INC	Mass	NAVY	RDTE/Services-Engineering Development		42
	KETRON INC	Penn	NAVY	RDTE/Services-Engineering Development		808
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Engineering Development		689
		Virginia	NAVY	RDTE/Services-Engineering Development		50
	CONTRACTOR TOTAL					739
	KULICKE AND SOFFA INDUSTRIES,	Penn	NAVY	RDTE/Services-Engineering Development		43
	LINCOM CORP NOT INC	Conn	NAVY	RDTE/Services-Engineering Development		50
	LITTON SYSTEMS INC	California	NAVY	RDTE/Services-Engineering Development		461
	LOCKHEED CORPORATION	California	NAVY	RDTE/Services-Engineering Development		200
	LOGISTICS MANAGEMENT ENGRG	California	NAVY	RDTE/Services-Engineering Development		1,222

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD24 (CONTINUED)					
		Maryland	NAVY	RDTE/Services-Engineering Development	\$ 354
		Ohio	USAF	RDTE/Services-Engineering Development	1,576
	MANTECH INTERNATIONAL CORP	Penn	NAVY	RDTE/Services-Engineering Development	1,498
	MAR INCORPORATED	Maryland	NAVY	RDTE/Services-Engineering Development	130
	MC LAUGHLIN RESEARCH CORP	Conn	NAVY	RDTE/Services-Engineering Development	1,469
	RHODE ISLAND	Rhode Island	NAVY	RDTE/Services-Engineering Development	67
	CONTRACTOR TOTAL				125
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Services-Engineering Development	192
	MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Services-Engineering Development	250
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Services-Engineering Development	45
	N T L INC	New York	NAVY	RDTE/Services-Engineering Development	1,669
	NAVMAR INC	Penn	NAVY	RDTE/Services-Engineering Development	50
	NICHOLS RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Services-Engineering Development	456
	OCEAN ANALYTICS LTD	Conn	NAVY	RDTE/Services-Engineering Development	391
	OMNI ANALYSIS INC	California	NAVY	RDTE/Services-Engineering Development	40
	PLANNING RESEARCH CORPORATION	Conn	NAVY	RDTE/Services-Engineering Development	300
	CONTRACTOR TOTAL				158
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Engineering Development	458
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Services-Engineering Development	321
	PAROSCIENTIFIC INC	Washington	NAVY	RDTE/Services-Engineering Development	1,146
	PERCEPTRONICS INC	Penn	NAVY	RDTE/Services-Engineering Development	115
	PLANNING RESEARCH CORPORATION	Virginia	USAF	RDTE/Services-Engineering Development	35
					3,403

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	261
AD24 (CONTINUED)						
	PURVIS SYSTEMS INCORPORATED	Conn		NAVY RDTE/Services-Engineering Development	\$	71
		Rhode Isld	NAVY	RDTE/Services-Engineering Development		332
	CONTRACTOR TOTAL					
QUADRAX		Rhode Isld	NAVY	RDTE/Services-Engineering Development		99
QUESTECH INC		Virginia	ARMY	RDTE/Services-Engineering Development		2,185
R B C INCORPORATED		Virginia	NAVY	RDTE/Services-Engineering Development		135
ROCKWELL INTERNATIONAL CORP		California	NAVY	RDTE/Services-Engineering Development		78
ROW RESEARCH ASSOC		Florida	NAVY	RDTE/Services-Engineering Development		46
SACHSE ENGINEERING ASSOCIATES		California	NAVY	RDTE/Services-Engineering Development		265
SCIENCE APPLICATIONS INTL CORP		California	USAF	RDTE/Services-Engineering Development		685
		Florida	USAF	RDTE/Services-Engineering Development		321
CONTRACTOR TOTAL						1,006
SEMCOR INC		Penn	NAVY	RDTE/Services-Engineering Development		1,912
SHEARWATER INC		Conn	NAVY	RDTE/Services-Engineering Development		88
SONALYSTS INC		Conn	NAVY	RDTE/Services-Engineering Development		1,486
SPEARS ASSOCIATES INC		Mass	NAVY	RDTE/Services-Engineering Development		1,300
SPERRY CORPORATION		Penn	NAVY	RDTE/Services-Engineering Development		1,536
STRATEGIC RESEARCH & MGT SVS		Ohio	USAF	RDTE/Services-Engineering Development		130
SYSCON CORPORATION		Rhode Isld	NAVY	RDTE/Services-Engineering Development		369
T S C INC		Colorado	NAVY	RDTE/Services-Engineering Development		61
TECHNICAL EVALUATION RESEARCH		New Jersey	ARMY	RDTE/Services-Engineering Development		57
TECHNOLOGY RESEARCH INTL		California	NAVY	RDTE/Services-Engineering Development		79
TELEDYNE INDUSTRIES INC		Alabama	ARMY	RDTE/Services-Engineering Development		370

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD24 (CONTINUED)					
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Services-Engineering Development	\$ 864
	TEXTRON INC	New York	USAF	RDTE/Services-Engineering Development	45
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Engineering Development	397
		Texas	NAVY	RDTE/Services-Engineering Development	1,224
	CONTRACTOR TOTAL				1,621
	TRW INC	Conn	NAVY	RDTE/Services-Engineering Development	360
	UNISYS CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development	415
	UNITED INTERNATIONAL ENGRG	New Mexico	NAVY	RDTE/Services-Engineering Development	51
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Services-Engineering Development	107
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Services-Engineering Development	188
	VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Engineering Development	80
		Virginia	NAVY	RDTE/Services-Engineering Development	1,966
	CONTRACTOR TOTAL				2,046
	VITRO CORPORATION	Maryland	NAVY	RDTE/Services-Engineering Development	482
	VREULS RESEARCH CORPORATION	California	NAVY	RDTE/Services-Engineering Development	50
	VSE CORPORATION	Florida	USAF	RDTE/Services-Engineering Development	6,995
	ZEROONE SYSTEMS INC	Texas	USAF	RDTE/Services-Engineering Development	1,265
	R&D TOTAL				112,324
AD25 ADVANCE INCORPORATED					
	ADVANCED TECHNOLOGY & RESEARCH	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,398
	AEPCO INC	Maryland	NAVY	RDTE/Services-Operational Systems Developm	419
	ALPHATECH INC	Mass	NAVY	RDTE/Services-Operational Systems Developm	695
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Services-Operational Systems Developm	290
					78

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD25 (CONTINUED)						
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	\$	1,915
		Virginia	NAVY	RDTE/Services-Operational Systems Developm		190
	CONTRACTOR TOTAL					2,105
	ANALYTIC SCIENCES CORP THE	Ohio	USAF	RDTE/Services-Operational Systems Developm		1,329
	ANALYTICS INCORPORATED	New Jersey	ARMY	RDTE/Services-Operational Systems Developm		267
		Penn	NAVY	RDTE/Services-Operational Systems Developm		241
	CONTRACTOR TOTAL					508
	AQUIDNECK MGT ASSOC LTD	Conn	NAVY	RDTE/Services-Operational Systems Developm		44
	ARINC RESEARCH CORPORATION	California	USAF	RDTE/Services-Operational Systems Developm		134
		Maryland	ARMY	RDTE/Services-Operational Systems Developm		1,298
	CONTRACTOR TOTAL					1,432
	ARMAMENT SYSTEMS INC	Maryland	ARMY	RDTE/Services-Operational Systems Developm		99
	ATLANTIC RESEARCH CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm		2,569
	AUTOMATED SCIENCES GROUP INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm		34
	BDM INTERNATIONAL INC	New Mexico	NAVY	RDTE/Services-Operational Systems Developm		132
		USAFA	RDTE/Services-Operational Systems Developm			381
	CONTRACTOR TOTAL					513
		Virginia	NAVY	RDTE/Services-Operational Systems Developm		537
	CONTRACTOR TOTAL					1,050
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Services-Operational Systems Developm		866-
	BOEING COMPANY THE	Kansas	USAF	RDTE/Services-Operational Systems Developm		28
		Washington	NAVY	RDTE/Services-Operational Systems Developm		1,100
	CONTRACTOR TOTAL					1,128

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION
AD25 (CONTINUED)				
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Services-Operational Systems Developm
	C A E INDUSTRIES LTD	Mar land	NAVY	RDTE/Services-Operational Systems Developm
	CAREER RESEARCH SYSTEMS INC	California	NAVY	RDTE/Services-Operational Systems Developm
	COMPUTER SCIENCES CORPORATION	New Jersey	ARMY NAVY	RDTE/Services-Operational Systems Developm RDTE/Services-Operational Systems Developm
		COUNTRY TOTAL		1,761
		Penn	NAVY	RDTE/Services-Operational Systems Developm
		Virginia	NAVY	RDTE/Services-Operational Systems Developm
				10,209
		CARRIER SYSTEMS ANALYSIS	NAVY	RDTE/Services-Operational Systems Developm
		CRITON TECHNOLOGIES	ARMY	RDTE/Services-Operational Systems Developm
		DATATEC INC FORT WALTON BEACH	NAVY	RDTE/Services-Operational Systems Developm
		DELEX SYSTEMS INCORPORATED	NAVY	RDTE/Services-Operational Systems Developm
		DYNAMICS RESEARCH CORPORATION	NAVY	RDTE/Services-Operational Systems Developm
		Rhode Isld	NAVY	RDTE/Services-Operational Systems Developm
				1,585
		CONTRACTOR TOTAL		10,769
				16,563
	E G & G WASHINGTON ALALYTIC SVC	Virginia	NAVY	RDTE/Services-Operational Systems Developm
	EAGLE SYSTEMS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm
	ELECTROSPACE SYSTEMS INC	Ohio	USAF	RDTE/Services-Operational Systems Developm
		Texas	USAF	RDTE/Services-Operational Systems Developm
				610
		CONTRACTOR TOTAL		668
	ENGELHARD CORPORATION	Alabama	ARMY	RDTE/Services-Operational Systems Developm
	ENGINEERING & PROFS VCS	New Jersey	ARMY	RDTE/Services-Operational Systems Developm
	ENVIRONMENTAL RESEARCH	Michigan	ARMY	RDTE/Services-Operational Systems Developm
				926
				1,504
				200
				44
				84
				635
				100
				735
				4
				165
				45
				2,448

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD25 (CONTINUED)					
	ESSCUBE ENGINEERING INC	New Jersey	NAVY	RDTE/Services-Operational Systems Developm	45
	ESSEX CORPORATION	Alabama	NAVY	RDTE/Services-Operational Systems Developm	114
	EVENTS ANALYSIS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	97
	EXECUTIVE RESOURCE ASSOCIATES	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,718
G R D INC	Penn	NAVY	RDTE/Services-Operational Systems Developm	287	
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Operational Systems Developm	52	
	Michigan	ARMY	RDTE/Services-Operational Systems Developm	299	
	Rhode Isld	NAVY	RDTE/Services-Operational Systems Developm	303	
	CONTRACTOR TOTAL				654
GENERAL ELECTRIC CO	New Jersey	NAVY	RDTE/Services-Operational Systems Developm	3,584	
	Penn	NAVY	RDTE/Services-Operational Systems Developm	372	
	CONTRACTOR TOTAL				3,956
GENERAL PHYSICS CORPORATION	Maryland	NAVY	RDTE/Services-Operational Systems Developm	105	
GTE GOVERNMENT SYSTEMS CORP	Mass	ARMY	RDTE/Services-Operational Systems Developm	5,537	
HERSH ACOUSTICAL ENGINEERING	California	NAVY	RDTE/Services-Operational Systems Developm	26	
IMAGE ACOUSTICS INC	Mass	NAVY	RDTE/Services-Operational Systems Developm	26	
INDUSTRIAL QUALITY INC	Maryland	ARMY	RDTE/Services-Operational Systems Developm	196	
INTEGRATED SYSTEMS ANALYSTS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	118	
INTEGRATED MICROCOMPUTER SYSTEMS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,493	
INTERNATIONAL COMPUTERS TELECOM	Maryland	NAVY	RDTE/Services-Operational Systems Developm	139	
ITT CORPORATION	Indiana	ARMY	RDTE/Services-Operational Systems Developm	1,715	
JOHNSON CONTROLS INC	Florida	ARMY	RDTE/Services-Operational Systems Developm	25,026	
	Marshall I	ARMY	RDTE/Services-Operational Systems Developm	15,717	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION - - - - -	\$	40,743
	CONTRACTOR TOTAL					725
KETRON INC	Penn	NAVY	RDTE/Services-Operational	Systems Developm		1,052
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Operational	Systems Developm		100
KRUG INTERNATIONAL CORPORATION	Ohio	USAF	RDTE/Services-Operational	Systems Developm		440
LEAR SIEGLER DIVERSIFIED HOLDINGS	Ohio	USAF	RDTE/Services-Operational	Systems Developm		28
	Oklahoma	USAF	RDTE/Services-Operational	Systems Developm		468
CONTRACTOR TOTAL						
LITTON SYSTEMS INC	California	NAVY	RDTE/Services-Operational	Systems Developm		73
LOCKHEED CORPORATION	California	NAVY	RDTE/Services-Operational	Systems Developm		59
MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Operational	Systems Developm		439
MANDEX INC	Virginia	NAVY	RDTE/Services-Operational	Systems Developm		31
MC DONNELL DOUGLAS CORPORATION	California	ARMY	RDTE/Services-Operational	Systems Developm		343-
MC LAUGHLIN RESEARCH CORP	Rhode Isld	NAVY	RDTE/Services-Operational	Systems Developm		118
MICRO COMPUTER SYSTEM INC	Virginia	NAVY	RDTE/Services-Operational	Systems Developm		49
MICRO CRAFT INC	Tennessee	NAVY	RDTE/Services-Operational	Systems Developm		27
MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Services-Operational	Systems Developm		548
N T L INC	New York	NAVY	RDTE/Services-Operational	Systems Developm		212
NATION INC	New Jersey	ARMY	RDTE/Services-Operational	Systems Developm		37
NATIONAL SYSTEMS & RESEARCH CO	Colorado	NAVY	RDTE/Services-Operational	Systems Developm		160
NEWPORT NEWS SHPBLDING DRYDOCK	Virginia	NAVY	RDTE/Services-Operational	Systems Developm		30
OWL INTERNATIONAL INC	Marshall I	ARMY	RDTE/Services-Operational	Systems Developm		2,224-
PACER SYSTEMS INC	Penn	NAVY	RDTE/Services-Operational	Systems Developm		751
PLANNING RESEARCH CORPORATION	Virginia	ARMY	RDTE/Services-Operational	Systems Developm		1,371

AD25 (CONTINUED)

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD25 (CONTINUED)						
	QUESTECH INC	D.C.	ARMY	RDTE/Services-Operational Systems Developm	\$ 119	
		Virginia	ARMY	RDTE/Services-Operational Systems Developm	1,288-	
	CONTRACTOR TOTAL				1,169-	
	RAIL COMPANY	Maryland	NAVY	RDTE/Services-Operational Systems Developm	329	
	RAYTHEON SERVICE COMPANY	Maine	NAVY	RDTE/Services-Operational Systems Developm	46-	
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	545	
	CONTRACTOR TOTAL				499	
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	468	
	S T SYSTEMS CORPORATION	Maryland	NAVY	RDTE/Services-Operational Systems Developm	100	
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Services-Operational Systems Developm	72	
	SEMCOR INC	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	136	
	SIMMS INDUSTRIES INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	521	
	SOFTECH INC	Mass	NAVY	RDTE/Services-Operational Systems Developm	32	
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	844	
	STEVENS INST OF TECHNOLOGY	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	167	
	STRATEGIC FINANCIAL PLG SYSTEMS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	137	
	STV ENGINEERS INC	Penn	NAVY	RDTE/Services-Operational Systems Developm	345	
	SUMMIT RESEARCH CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	29	
	SUNDSTRAND DATA CONTROL INC	Washington	ARMY	RDTE/Services-Operational Systems Developm	52-	
	SVERDRUP TECHNOLOGY INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	917	
		Tennessee	USAF	RDTE/Services-Operational Systems Developm	1,073	
	CONTRACTOR TOTAL				1,990	
	SYSCON CORPORATION	Rhode Isld	NAVY	RDTE/Services-Operational Systems Developm	92	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD25 (CONTINUED)					
		Texas	NAVY	RDTE/Services-Operational Systems Developm	\$ 48
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	9,557
	CONTRACTOR TOTAL				9,697
SYSTEM DEVELOPMENT CORPORATION	Penn	NAVY	RDTE/Services-Operational Systems Developm		1,345
SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Services-Operational Systems Developm		153
TECHNICAL & MGT SVCS CORP	Maryland	USAF	RDTE/Services-Operational Systems Developm		331
	Ohio	USAF	RDTE/Services-Operational Systems Developm		155
	CONTRACTOR TOTAL				486
TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Services-Operational Systems Developm		10,245
TIME & SPACE PROCESSING INC	Virginia	USAF	RDTE/Services-Operational Systems Developm		26
TRACOR AEROSPACE INC	Conn	NAVY	RDTE/Services-Operational Systems Developm		27
TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Operational Systems Developm		68
TRACOR MARINE INC	Florida	NAVY	RDTE/Services-Operational Systems Developm		109
TRI STATE DESIGN INC	Penn	NAVY	RDTE/Services-Operational Systems Developm		49
TRW INC	Ohio	USAF	RDTE/Services-Operational Systems Developm		12,146
UNISYS CORPORATION	New York	NAVY	RDTE/Services-Operational Systems Developm		105
VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Operational Systems Developm		1,205
	Virginia	NAVY	RDTE/Services-Operational Systems Developm		188
	CONTRACTOR TOTAL				1,393
VITRO CORPORATION	Maryland	NAVY	RDTE/Services-Operational Systems Developm		938
	Virginia	NAVY	RDTE/Services-Operational Systems Developm		617
	CONTRACTOR TOTAL				1,555
WALLACE & CO	N Carolina	USAF	RDTE/Services-Operational Systems Developm		2,340

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
	R&D TOTAL				\$ 139,417	641-
AD26	A T & T TECHNOLOGIES INC	N Carolina	ARMY	RDTE/Services-Management & Support		44
	ADAPTIVE DIGITAL SYSTEMS INC	California	NAVY	RDTE/Services-Management & Support		49
	ADVANCED ENGINEERING CORP	California	NAVY	RDTE/Services-Management & Support		346
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Management & Support		2,305
	ADVANCED TECHNOLOGY INC	Virginia	NAVY	RDTE/Services-Management & Support		50
	AEROENVIRONMENT INC	California	NAVY	RDTE/Services-Management & Support		51
	AKM ASSOCIATES	California	NAVY	RDTE/Services-Management & Support		250
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Services-Management & Support		89
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Management & Support		75
	ANALYTIC SCIENCES CORP THE	Mass	USAF	RDTE/Services-Management & Support		678
	ANALYTIC SERVICES INC	Colorado	USAF	RDTE/Services-Management & Support		178
	ANALYTICAL SYSTEMS ENGRG CORP	Mass	NAVY	RDTE/Services-Management & Support		8,368
		USAF	RDTE/Services-Management & Support			
			COUNTRY TOTAL			8,546
						665
	ANALYTICS INCORPORATED	Virginia	ARMY	RDTE/Services-Management & Support		509
	APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Services-Management & Support		185
	ASSURANCE TECHNOLOGY CORP	Mass	NAVY	RDTE/Services-Management & Support		50
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Management & Support		606
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Services-Management & Support		1,745
	BALL CORPORATION	Ohio	USAF	RDTE/Services-Management & Support		1,333
	BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Services-Management & Support		50
	COMPUSearch CORP	Virginia	NAVY	RDTE/Services-Management & Support		348
	COMPUTER RESOURCE ENGRG ASSOC	Maryland	ARMY	RDTE/Services-Management & Support		

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

		(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD26 (CONTINUED)					
	CONTRACTOR TOTAL				
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Services-Management & Support	\$ 2,237
	CONTROL DATA CORPORATION	GERMANY, F	ARMY	RDTE/Services-Management & Support	1,171
	CORTANA CORPORATION	California	NAVY	RDTE/Services-Management & Support	3,756
	CRYSTALLUME	Minnesota	ARMY	RDTE/Services-Management & Support	1,195
	DCS CORPORATION	Virginia	NAVY	RDTE/Services-Management & Support	1,279
	DECISION SCIENCE CONSORTIUM	California	USAF	RDTE/Services-Management & Support	50
	DIALOG SYSTEMS INC	Virginia	NAVY	RDTE/Services-Management & Support	467
	DUAL & ASSOC INC	Virginia	NAVY	RDTE/Services-Management & Support	700
	E M I TECHNOLOGIES INC	New Mexico	NAVY	RDTE/Services-Management & Support	250
	EAGLE TECHNOLOGY INC	Virginia	ARMY	RDTE/Services-Management & Support	60
	ELECTROSPACE SYSTEMS INC	Mass	NAVY	RDTE/Services-Management & Support	1,215
	ENTROPIC SPEECH	Virginia	NAVY	RDTE/Services-Management & Support	157
	EPSILON LAMBDA ELECTRONICS	Ohio	ARMY	RDTE/Services-Management & Support	4,692
	FAIRCHILD INDUSTRIES INC	Conn	NAVY	RDTE/Services-Management & Support	35-
	FRONTIER TECHNOLOGY INC	Illinois	USAF	RDTE/Services-Management & Support	50
	GENERAL DYNAMICS CORPORATION	New York	USAF	RDTE/Services-Management & Support	66
	GENERAL ELECTRIC CO	California	USAF	RDTE/Services-Management & Support	286-
	GENERAL RESEARCH CORPORATION	California	NAVY	RDTE/Services-Management & Support	1,095
	Marshall I	New Jersey	ARMY	RDTE/Services-Management & Support	2,318
	CONTRACTOR TOTAL	Marshall I	ARMY	RDTE/Services-Management & Support	26,404
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Services-Management & Support	1,158
					27,562
					27
					562
					399

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R&D
-
CONTRACTOR NAME
-
COUNTRY
-
DEPT
-
AD26 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
CONTRACTOR TOTAL						
	GTE GOVERNMENT SYSTEMS CORP	California	ARMY	RDTE/Services-Management & Support	\$ 147	
		Mass	ARMY	RDTE/Services-Management & Support	2,538	
		Marshall I	ARMY	RDTE/Services-Management & Support	2,114	
					4,799	
	HYDROACOUSTICS INC	New York	NAVY	RDTE/Services-Management & Support	51	
	INNOVATIVE RESEARCH	Colorado	NAVY	RDTE/Services-Management & Support	46	
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Services-Management & Support	305	
	KILDARE	Conn	NAVY	RDTE/Services-Management & Support	50	
	LOGISTICS MANAGEMENT ENGRG	Maryland	NAVY	RDTE/Services-Management & Support	169	
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Services-Management & Support	1,848	
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Management & Support	667	
	MAR INCORPORATED	Florida	NAVY	RDTE/Services-Management & Support	2,648	
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Services-Management & Support	822	
	MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Services-Management & Support	50	
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Services-Management & Support	1,437	
	MENTOR TECHNOLOGIES INC	Maryland	ARMY	RDTE/Services-Management & Support	78	
	MICRO MODE PRODUCTS INC	California	NAVY	RDTE/Services-Management & Support	203	
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Services-Management & Support	378	
	N K F ENGINEERING INC	California	NAVY	RDTE/Services-Management & Support	866	
	NAVMAR INC	Penn	NAVY	RDTE/Services-Management & Support	109	
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Services-Management & Support	9,198	
	NIAGARA SYS SOFTWARE INC	New York	NAVY	RDTE/Services-Management & Support	49	
	OPTRA INC	Mass	NAVY	RDTE/Services-Management & Support	250	

Prepared By: Washington Headquarters Services
Directorate for Information
Operations and Reports

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION
AD26 (CONTINUED)					
	ORINCON CORPORATION	California	NAVY	RDTE/Services-Management & Support	\$ 50
	ORTEL CORPORATION	California	NAVY	RDTE/Services-Management & Support	50
	PINNACLE RESEARCH INSTITUTE	California	USAF	RDTE/Services-Management & Support	433
	RADIX SYSTEMS	Maryland	NAVY	RDTE/Services-Management & Support	49
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Services-Management & Support	337
	RIVERSIDE RESEARCH INSTITUTE	Mass	USAF	RDTE/Services-Management & Support	228
	S W L INC	Virginia	NAVY	RDTE/Services-Management & Support	259
	SCE INCORPORATED	Penn	NAVY	RDTE/Services-Management & Support	35
	SCHLUMBERGER TECHNOLOGY CORP	Michigan	USAF	RDTE/Services-Management & Support	428
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Services-Management & Support	74
	SIMNET	California	NAVY	RDTE/Services-Management & Support	50
	SOFTECH INC	Mass	USAF	RDTE/Services-Management & Support	449
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Management & Support	325
		Rhode Islid	NAVY	RDTE/Services-Management & Support	70
	CONTRACTOR TOTAL				395
	SYSTEMS CONTROL TECHNOLOGY	California	USAF	RDTE/Services-Management & Support	62
	TECHNICAL & MGT SVCS CORP	New Jersey	ARMY	RDTE/Services-Management & Support	1,128
	TECHNICAL EVALUATION RESEARCH	New Jersey	ARMY	RDTE/Services-Management & Support	137
	TECUMSEH PRODUCTS COMPANY	California	ARMY	RDTE/Services-Management & Support	170
	TEXAS INSTRUMENTS INCORPORATED	California	NAVY	RDTE/Services-Management & Support	5,141
	UYON RESEARCH CORP	California	USAF	RDTE/Services-Management & Support	275
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Services-Management & Support	860
	TRANSFORM INDEX TECHNOLOGY INC	Texas	NAVY	RDTE/Services-Management & Support	50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION
AD26 (CONTINUED)					
	TRW INC	Ohio	USAF	\$ 200	RDTE/Services-Management & Support
	UNITED STATES DEPT OF COMMERCE	D.C.	NAVY	285	RDTE/Services-Management & Support
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	2,128	RDTE/Services-Management & Support
	VENNTRONIX CORPORATION	New York	ARMY	355	RDTE/Services-Management & Support
	VITRO CORPORATION	Maryland	NAVY	872	RDTE/Services-Management & Support
	ZEGER ABRAMS INCORPORATED	Penn	NAVY	271	RDTE/Services-Management & Support
	R&D TOTAL			100,769	
AD32	POTOMAC RESEARCH INCORPORATED	Virginia	ARMY	97	RDTE/Subsistence-Exploratory Development
	UNIVERSITY OF MARYLAND	Maryland	NAVY	27	RDTE/Subsistence-Exploratory Development
	UNIVERSITY OF PITTSBURGH TRUST	W Virginia	NAVY	60	RDTE/Subsistence-Exploratory Development
	R&D TOTAL			184	
AD33	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	52	RDTE/Subsistence-Advanced Development
	TINGLEY RUBBER CORPORATION	New Jersey	ARMY	60	RDTE/Subsistence-Advanced Development
	R&D TOTAL			112	
AD34	UNIVERSITY OF MARYLAND	Maryland	ARMY	39-	RDTE/Subsistence-Engineering Development
AD35	FEDERAL INFORMATION TECH INC	Virginia	ARMY	171	RDTE/Subsistence-Operational Systems Devel
AD36	FAAC PERCEPTRONICS INC	Penn	USAF	45	RDTE/Subsistence-Management & Support
	SPACE SYSTEMS ENGINEERING	Utah	USAF	302	RDTE/Subsistence-Management & Support
	R&D TOTAL			347	
AD41	AMERICAN HYPERFORM CO	Penn	NAVY	36	RDTE/Textiles, Clothing, Equipment-Basic Re
	CREATIVE OPTICS INC	Mass	ARMY	261	RDTE/Textiles, Clothing, Equipment-Basic Re
	POLYTRONIX INC	Texas	ARMY	50	RDTE/Textiles, Clothing, Equipment-Basic Re
	R&D TOTAL			347	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD42	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	\$ 50	
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	81	
	BIRDAIR STRUCTURES INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	180	
	CHEM FAB CORPORATION	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	371	
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D		
	DU PONT E I DE NMOURS COMPANY	Delaware	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	77	
	ENGINE RESEARCH ASSOCIATES	Indiana	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	36	
	FROST ENGINEERING DEVELOPMENT	Colorado	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	45	
	KAPPLER SAFETY GROUP INC	Alabama	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	50	
	MATERIAL CONCEPTS INC	Ohio	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	75	
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	50	
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	307	
	RADIATION MONITORING DEVICES	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	160	
	SYSTEM DYNAMICS INC	Florida	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	100	
	TENSAR STRUCTURES INC	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	289	
	R&D TOTAL				1,871	
AD43	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	50	
	BOEING COMPANY THE	Washington	USAF	RDTE/Textiles, Clothing, Equipage-Advanced	200	
	GEOMET INC	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	1,802	
	INTERNATIONAL THERMAL RESEARCH	BOTSWANA	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	90	
	MILLIMETER WAVE TECHNOLOGY	Georgia	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	440	
	R&D TOTAL				2,582	
AD44	BOEING COMPANY THE	Washington	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	326-	
	BROWN DAYTON T INC	New York	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	66-	
	GENTEX CORPORATION	Penn	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	922	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD44 (CONTINUED)					
	GEOMET INC	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	\$ 31
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	5,413
	STV ENGINEERS INC	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	1,003
	WICKES MANUFACTURING COMPANY	California	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	193
	R&D TOTAL				7,170
		S Carolina	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	200
	KETRON INC	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	70
	MARITIME DYNAMICS INC	California	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	58
	PERCEPTRONICS INC	Michigan	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	25
	TRACTELL INC	Ohio	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	42
	R&D TOTAL				395
	HONIG INDUSTRIAL DIAMOND WHEEL SYSTEMS RESEARCH LABORATORIES	New York	NAVY	RDTE/Fuels and Lubricants-Basic Research	159-
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	66
		Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	134
	R&D TOTAL				41
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	145
	GEO CENTERS INC	D.C.	NAVY	RDTE/Fuels and Lubricants-Exploratory Deve	492
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	99
		Missouri	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	200
	CONTRACTOR TOTAL				299
	PHOENIX CHEMICAL LABORATORY	Illinois	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	48
	SIGNAL RESEARCH CENTER INC	Illinois	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	51
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Exploratory Deve	703

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 Directorate for Information Operations and Reports

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD52 (CONTINUED)					
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	\$ 814
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	344
		Florida	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	444
		Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	465
	CONTRACTOR TOTAL				1,253
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	140
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	1,920
	R&D TOTAL				5,865
AD53	RENNSLEAER POLYTECHNIC INST	New York	USAF	RDTE/Fuels and Lubricants-Advanced Develop	105
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Advanced Develop	1,291
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Fuels and Lubricants-Advanced Develop	100
	R&D TOTAL				1,496
AD56	LUBRICATING SPC COMPANY	California	USAF	RDTE/Fuels and Lubricants-Management & Sup	94
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Fuels and Lubricants-Management & Sup	45
	R&D TOTAL				139
AD61	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Construction-Basic Research	708
	APPLIED RESEARCH CORPORATION	D.C.	NAVY	RDTE/Construction-Basic Research	878
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Construction-Basic Research	327
	ITT CORPORATION	Virginia	ARMY	RDTE/Construction-Basic Research	383
	MC DONNELL DOUGLAS INCO INC	Florida	ARMY	RDTE/Construction-Basic Research	785
	OKLAHOMA STATE UNIVERSITY	Virginia	ARMY	RDTE/Construction-Basic Research	56
	SCI TEC INC	New Jersey	ARMY	RDTE/Construction-Basic Research	250
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Construction-Basic Research	600

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD61 (CONTINUED)						
	THREE C SYSTEMS INC	Penn	USAF	RDTE/Construction-Basic Research	404	
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Construction-Basic Research	150	
R&D TOTAL					4,541	
AD62	ANAMET LABORATORIES INC	California	USAF	RDTE/Construction-Exploratory Development	50	
	ENGINEERING INCORPORATED	Virginia	ARMY	RDTE/Construction-Exploratory Development	50	
	GENERAL ELECTRIC CO	Ohio	NAVY	RDTE/Construction-Exploratory Development	960	
	GEO CENTERS INC	Mass	ARMY	RDTE/Construction-Exploratory Development	259	
	GREEN MOUNTAIN RADIO RESS CO	Vermont	ARMY	RDTE/Construction-Exploratory Development	330	
	HONEYWELL INC	Mass	ARMY	RDTE/Construction-Exploratory Development	294	
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Construction-Exploratory Development	49	
		USAF	RDTE/Construction-Exploratory Development	288		
			COUNTRY TOTAL		337	
	INTERNATIONAL BUS MCHS CORP	New York	USAF	RDTE/Construction-Exploratory Development	231	
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Construction-Exploratory Development	240	
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Construction-Exploratory Development	102	
	PACIFIC SIERRA RESEARCH CORP	N Carolina	NAVY	RDTE/Construction-Exploratory Development	50	
	POLAROID CORPORATION	Mass	ARMY	RDTE/Construction-Exploratory Development	574	
	QUEST RESEARCH CORPORATION	Virginia	ARMY	RDTE/Construction-Exploratory Development	100	
	S C S TELECOM INC	New York	ARMY	RDTE/Construction-Exploratory Development	54	
	SABRE SYSTEMS INC	Penn	NAVY	RDTE/Construction-Exploratory Development	41	
	SCIENCE APPLICATIONS INTL CORP	D.C.	NAVY	RDTE/Construction-Exploratory Development	638	
		Virginia	ARMY	RDTE/Construction-Exploratory Development	1,200	
		NAVY	RDTE/Construction-Exploratory Development	486		
			COUNTRY TOTAL		1,686	

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(AMOUNTS IN THOUSANDS)					
R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD62 (CONTINUED)	CONTRACTOR TOTAL				
	TECHNICAL DOCUMENTATION INC	Penn	NAVY	RDTE/Construction-Exploratory Development	\$ 2,324
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Construction-Exploratory Development	30
R&D TOTAL					766
AD63	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Construction-Advanced Development	6,792
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Construction-Advanced Development	252
	ANALYTIC SCIENCES CORP THE	Mass	USAF	RDTE/Construction-Advanced Development	70
	BBN SYSTEMS & TECH CORP	Mass	NAVY	RDTE/Construction-Advanced Development	264
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Construction-Advanced Development	993
	EDWARDS COMMUNICATIONS ELC OPTIONS	Virginia	ARMY	RDTE/Construction-Advanced Development	200
	ELECTRO MAGNETIC APPLICATION	New Mexico	NAVY	RDTE/Construction-Advanced Development	500
	HYDROACOUSTICS INC	New York	NAVY	RDTE/Construction-Advanced Development	25
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Construction-Advanced Development	465
	SRI INTERNATIONAL	California	ARMY	RDTE/Construction-Advanced Development	82,623
	TRW INC	California	NAVY	RDTE/Construction-Advanced Development	77
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Construction-Advanced Development	758
	VITRO CORPORATION	Penn	NAVY	RDTE/Construction-Advanced Development	235
R&D TOTAL					130
AD64	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Construction-Engineering Development	86,592
	MICREL INCORPORATED	California	ARMY	RDTE/Construction-Engineering Development	186
	SUNDSTRAND SERVICE CORPORATION	Illinois	NAVY	RDTE/Construction-Engineering Development	226
R&D TOTAL					244
AD65	BUNDESAMT FUER WEHRTECHNIK	GERMANY, F	ARMY	RDTE/Construction-Operational Systems Deve	656
	PACIFIC SIERRA RESEARCH CORP	New Mexico	ARMY	RDTE/Construction-Operational Systems Deve	129
					854

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD65 (CONTINUED)					
	PITT-DES MOINES INC	Penn	NAVY	RDTE/Construction-Operational Systems Deve	\$ 663
	SEMA INC	Virginia	ARMY	RDTE/Construction-Operational Systems Deve	600
	SPERRY CORPORATION	Virginia	NAVY	RDTE/Construction-Operational Systems Deve	158
R&D TOTAL					2,404
	AD66 COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Construction-Management & Support	479
	JAYCOR	Virginia	NAVY	RDTE/Construction-Management & Support	156
	LOCUS INC	Penn	NAVY	RDTE/Construction-Management & Support	200
R&D TOTAL					835
	AD91 A P A OPTICS INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research	488
	A T & T TECHNOLOGIES INC	N Carolina	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	629 175
				COUNTRY TOTAL	804
	ABT ASSOCIATES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	32
	ADVANCE ENVIRONMENT RESEARCH	Virginia	ARMY	RDTE/Other Defense-Basic Research	176
	ADVANCED DECISION SYSTEMS	California	NAVY	RDTE/Other Defense-Basic Research	156
	ADVANCED SCIENCES INC	New Mexico	NAVY	RDTE/Other Defense-Basic Research	130
	ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	925
	AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Other Defense-Basic Research	159
	AEROJET	California	NAVY	RDTE/Other Defense-Basic Research	237
	AEROJET STRATEGIC PROPULSION	California	NAVY	RDTE/Other Defense-Basic Research	90
	AERONIX INC	Florida	NAVY	RDTE/Other Defense-Basic Research	100
	AGOURON INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research	150
	ALABAMA CRYOGENIC ENGINEERING	Alabama	NAVY	RDTE/Other Defense-Basic Research	249

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R&D	CONTRACTOR NAME	COUNTRY	DEPT
R&D DESCRIPTION-----			
AD91 (CONTINUED)			
ALCATEL N V	Conn	NAVY	\$ 45
ALLEN CORPORATION OF AMERICA	Virginia	ARMY	354
ALLIED SIGNAL AEROSPACE CO	California	NAVY	100
	D.C.	NAVY	205
	Maryland	NAVY	16,170
	CONTRACTOR TOTAL		16,475
ALLIED SIGNAL INC	Illinois	NAVY	100
	New Jersey	NAVY	91
	N Carolina	NAVY	79
	CONTRACTOR TOTAL		270
AM BIOTECHNOLOGY COMPANY	Maryland	NAVY	495
AMERICAN FOUNDATION	Maryland	NAVY	100
AMERICAN INST RSRCH BEHAV SCI	D.C.	ARMY	366
AMERICAN RED CROSS THE	D.C.	NAVY	604
AMERICAN SOC FOR ENGRG EDCTON	D.C.	NAVY	2,389
AMOCO TECHNOLOGY CO	California	NAVY	125
AMRON CORPORATION	Virginia	NAVY	37
ANALYSIS & TECHNOLOGY INC	Virginia	NAVY	30
ANALYTIC SCIENCES CORP THE	Mass	USAF	215
ANALYTICS INCORPORATED	Penn	USAF	65
ANALYTIX ELECTRONIC SYSTEMS	N.H.	NAVY	6,232
ANAREN MICROWAVE INC	New York	NAVY	50
APPLIED ORDNANCE TECHNOLOGY	Maryland	NAVY	471

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
	APPLIED PHYSICS TECHNOLOGY	Virginia	NAVY	RDTE/Other Defense-Basic Research	\$ 30
	APPLIED SYSTEMS ENGINEERING	Texas	NAVY	RDTE/Other Defense-Basic Research	31
	AQUANAUTICS CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	1,066
	ARCTIC ANALYSTS INC	Colorado	NAVY	RDTE/Other Defense-Basic Research	69
	ARDAK CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	400
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research	983
		Virginia	NAVY	RDTE/Other Defense-Basic Research	450
	CONTRACTOR TOTAL				1,433
	ARIZONA STATE UNIVERSITY	Arizona	NAVY	RDTE/Other Defense-Basic Research	717
	ASSOC OF UNIV FOR RSCH IN ASTR	D.C.	NAVY	RDTE/Other Defense-Basic Research	50
	ASSOCIATED UNIVERSITIES INC	New York	NAVY	RDTE/Other Defense-Basic Research	212
	ASSURANCE TECHNOLOGY CORP	Florida	NAVY	RDTE/Other Defense-Basic Research	899
		Mass	NAVY	RDTE/Other Defense-Basic Research	8,201
	CONTRACTOR TOTAL				9,100
	ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Other Defense-Basic Research	69
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	298
	AUSTIN RESEARCH ASSOCIATES	Texas	NAVY	RDTE/Other Defense-Basic Research	130
	B K DYNAMICS INC	California	NAVY	RDTE/Other Defense-Basic Research	93
		Maryland	NAVY	RDTE/Other Defense-Basic Research	75
	CONTRACTOR TOTAL				168
	B-K TECHNOLOGIES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	344
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Defense-Basic Research	760
	BAND LAVIS & ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Basic Research	281

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
BARRON ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	95	
BATTELLE MEMORIAL INSTITUTE	Ohio	NAVY	RDTE/Other Defense-Basic Research	269	
BAYLOR UNIVERSITY	Texas	NAVY	RDTE/Other Defense-Basic Research	139	
BBN ADVANCED COMPUTERS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	57	
BDM CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	256	
BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	2,666	
		NAVY	RDTE/Other Defense-Basic Research	1,158	
			COUNTRY TOTAL	3,824	
BELL COMMUNICATIONS RESEARCH	New Jersey	NAVY	RDTE/Other Defense-Basic Research	101	
BETAC CORPORATION	Virginia	USAF	RDTE/Other Defense-Basic Research	115	
BIGELOW LAB FOR OCEAN SCNCES	Maine	NAVY	RDTE/Other Defense-Basic Research	77	
BIOPHOTONICS	Wisconsin	NAVY	RDTE/Other Defense-Basic Research	50	
BIOSPHERICAL INSTRUMENTS INC	California	NAVY	RDTE/Other Defense-Basic Research	247	
BOEING COMPANY THE	Washington	NAVY	RDTE/Other Defense-Basic Research	239	
		USAF	RDTE/Other Defense-Basic Research	204	
			COUNTRY TOTAL	443	
BOEING ELECTRONICS INC	Washington	ARMY	RDTE/Other Defense-Basic Research	124	
BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Other Defense-Basic Research	4,202	
BOSTON UNIVERSITY TRUSTEES OF	Mass	NAVY	RDTE/Other Defense-Basic Research	243	
BOWLING GREEN STATE UNIVERSITY	Ohio	NAVY	RDTE/Other Defense-Basic Research	50	
BRIGHAM YOUNG UNIVERSITY	Utah	NAVY	RDTE/Other Defense-Basic Research	267	
BROWN UNIVERSITY	Rhode Isld	NAVY	RDTE/Other Defense-Basic Research	3,922	
C & L ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Basic Research	37	
CALIFORNIA INST OF TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research	6,214	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD91 (CONTINUED)						
	CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research	239	
	CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Other Defense-Basic Research	75	
	CALSPAN CORPORATION	New York	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	114 228	
		COUNTRY TOTAL			342	
	CAMBRIDGE HYDRO-DYNAMICS INC	New Jersey	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	326 50	
		COUNTRY TOTAL			376	
	CAMPBELL ENGINEERING INC	Alabama	ARMY	RDTE/Other Defense-Basic Research	1,204	
	CANADIAN COMMERCIAL CORP	Canada	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	37- 322	
		COUNTRY TOTAL			285	
	CARDINAL SCIENTIFIC	Maryland	ARMY	RDTE/Other Defense-Basic Research	52	
	CARNEGIE GROUP INC	Penn	ARMY	RDTE/Other Defense-Basic Research	343	
	CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Basic Research	3,435	
	CASE WESTERN RESERVE UNIV	Ohio	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	1,605 50	
		COUNTRY TOTAL			1,655	
	CATERPILLAR INC	Illinois	ARMY	RDTE/Other Defense-Basic Research	240	
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Other Defense-Basic Research	422	
	CERAMATEC INC	Utah	NAVY	RDTE/Other Defense-Basic Research	174	
	CHASE INC	Mass	NAVY	RDTE/Other Defense-Basic Research	94	
	CHEMETEK	Oregon	ARMY	RDTE/Other Defense-Basic Research	50	
	CHEMICAL DYNAMICS CORP	Maryland	NAVY	RDTE/Other Defense-Basic Research	55	
	CHIA SHUN YIH	Michigan	NAVY	RDTE/Other Defense-Basic Research	25	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	CITY COLLEGE OF NEW YORK	New York		NAVY RDTE/Other Defense-Basic Research	50
	CITY UNIVERSITY OF NEW YORK	New York		NAVY RDTE/Other Defense-Basic Research	411
	CLARK ATLANTA UNIVERSITY	Georgia		NAVY RDTE/Other Defense-Basic Research	330
	CLARK UNIVERSITY	Mass		NAVY RDTE/Other Defense-Basic Research	109
	CLEMSON UNIVERSITY	S. Carolina		NAVY RDTE/Other Defense-Basic Research	257
	COHERENT INC	Maryland		NAVY RDTE/Other Defense-Basic Research	110
	COLEMAN RESEARCH CORPORATION	Florida		NAVY RDTE/Other Defense-Basic Research	200
	COLORADO SCHOOL OF MINES	Colorado		NAVY RDTE/Other Defense-Basic Research	361
	COLORADO STATE UNIVERSITY	Colorado		ARMY RDTE/Other Defense-Basic Research	30
		ARMY NAVY		RDTE/Other Defense-Basic Research	791
				COUNTRY TOTAL	821
	COLSA INC	Alabama		ARMY RDTE/Other Defense-Basic Research	5,495
	COLUMBIA UNIVERSITY	New York		NAVY RDTE/Other Defense-Basic Research	3,082
	COMPUTATIONAL LOGIC INC	Texas		NAVY RDTE/Other Defense-Basic Research	140
	COMPUTER CONVERSIONS CORP	New York		NAVY RDTE/Other Defense-Basic Research	42
	COMPUTER DATA SYSTEMS INC	Maryland		ARMY RDTE/Other Defense-Basic Research	197
	COMPUTER SCIENCES CORPORATION	Alabama		ARMY RDTE/Other Defense-Basic Research	714
	COORDINATING RESEARCH COUNCIL	Georgia		ARMY RDTE/Other Defense-Basic Research	140
	CORBETT TECHNOLOGY COMPANY	Alabama		ARMY RDTE/Other Defense-Basic Research	799
	CORDEC CORPORATION	Virginia		NAVY RDTE/Other Defense-Basic Research	450
	CORNELL UNIVERSITY	New York		ARMY RDTE/Other Defense-Basic Research	200
		NAVY		RDTE/Other Defense-Basic Research	3,442
				COUNTRY TOTAL	3,642
	CORNING INC	New York		NAVY RDTE/Other Defense-Basic Research	100

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R&D	CONTRACTOR NAME	COUNTRY	(AMOUNTS IN THOUSANDS)		\$	R&D DESCRIPTION
			DEPT			
AD91 (CONTINUED)						
	COVALENT ASSOCIATES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	\$ 200	
	CRYSTALLUME	California	NAVY	RDTE/Other Defense-Basic Research	356	
	DARTMOUTH COLLEGE	N.H.	NAVY	RDTE/Other Defense-Basic Research	1,101	
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Other Defense-Basic Research	262	
	DEACON RESEARCH	California	NAVY	RDTE/Other Defense-Basic Research	135	
	DECISION INFORMATION SYSTEMS	Maryland	NAVY	RDTE/Other Defense-Basic Research	155	
	DECISION SCIENCE APPLICATIONS	Virginia	ARMY	RDTE/Other Defense-Basic Research	147	
	DECISION SCIENCE CONSORTIUM	Virginia	NAVY	RDTE/Other Defense-Basic Research	108	
	DEFENSE GROUP INC THE	Virginia	NAVY	RDTE/Other Defense-Basic Research	150	
	DEFENSE SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	5,582	
	DESIGNERS & PLANNERS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	48	
	DIAMOND MATERIALS INSTITUTE	Penn	NAVY	RDTE/Other Defense-Basic Research	433	
	DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Basic Research	142	
	DIGITAL OPTICS INC	Michigan	NAVY	RDTE/Other Defense-Basic Research	349	
	DIGITAL SIGNAL CORPORATION	Virginia	ARMY	RDTE/Other Defense-Basic Research	128	
			NAVY	RDTE/Other Defense-Basic Research	49	
	COUNTRY TOTAL				177	
	DISPLAYTECH INC	Colorado	NAVY	RDTE/Other Defense-Basic Research	250	
	DONMAR LTD	California	USAF	RDTE/Other Defense-Basic Research	48	
	DOW CHEMICAL COMPANY THE	Michigan	USAF	RDTE/Other Defense-Basic Research	100	
	DREXEL UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Basic Research	476	
	DU PONT E I DE NMOURS COMPANY	Delaware	USAF	RDTE/Other Defense-Basic Research	100	
	DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Basic Research	847	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
(AMOUNTS IN THOUSANDS)					
AD91 (CONTINUED)					
DYNA EAST CORPORATION	Penn	USAF	RDTE/Other Defense-Basic Research		70
DYNAMET TECHNOLOGY INC	Mass	ARMY	RDTE/Other Defense-Basic Research		80
DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Other Defense-Basic Research		120
DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research		778
E G & G MASON RESEARCH INST	Mass	NAVY	RDTE/Other Defense-Basic Research		101
E G & G WASHINGTON ALAYTL SVC	Maryland	NAVY	RDTE/Other Defense-Basic Research		139
	Mass	NAVY	RDTE/Other Defense-Basic Research		325
CONTRACTOR TOTAL					464
E I C LABORATORY INC	Mass	NAVY	RDTE/Other Defense-Basic Research		363
E O CONSULTING	California	NAVY	RDTE/Other Defense-Basic Research		69
E OTR MEASUREMENTS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		75
E P L ANALYSIS	Maryland	NAVY	RDTE/Other Defense-Basic Research		91
EASTMAN KODAK COMPANY	New York	NAVY	RDTE/Other Defense-Basic Research		200
EDUCATIONAL TESTING SERVICE	New Jersey	NAVY	RDTE/Other Defense-Basic Research		139
EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other Defense-Basic Research		60
ELEWAVE VALTEC CABLE PDS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		926
ELTRON RESEARCH INCORPORATED	Illinois	NAVY	RDTE/Other Defense-Basic Research		50
EMORY UNIVERSITY	Georgia	NAVY	RDTE/Other Defense-Basic Research		215
ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		190
ENVIRONMENTAL RESEARCH	Michigan	NAVY	RDTE/Other Defense-Basic Research		1,233
		USAF	RDTE/Other Defense-Basic Research		220
COUNTRY TOTAL	New York	NAVY	RDTE/Other Defense-Basic Research		1,453
ERG SYSTEMS INC					47

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
	EXCEL TECHNOLOGY INC	New York	NAVY	RDTE/Other Defense-Basic Research	\$ 50	
	FAILURE ANALYSIS ASSOCIATES	California	ARMY	RDTE/Other Defense-Basic Research	50	
	FALCON SYSTEMS INC	Maryland	ARMY	RDTE/Other Defense-Basic Research	100	
	FATIGUE TECHNOLOGY INC	Washington	NAVY	RDTE/Other Defense-Basic Research	50	
	FEDERAL AMRCN ASSN ADMIN BLOGY	Maryland	NAVY	RDTE/Other Defense-Basic Research	63	
	FEL TECH INC	Florida	NAVY	RDTE/Other Defense-Basic Research	57	
	FERRANTI INSTRUMENTATION LTD	UNITED KINGDOM	NAVY	RDTE/Other Defense-Basic Research	71	
	FLORIDA ATLANTIC UNIVERSITY	Florida	NAVY	RDTE/Other Defense-Basic Research	38	
	FLORIDA STATE UNIVERSITY	Florida	NAVY	RDTE/Other Defense-Basic Research	63	
	FLOUROCHEM INC	California	NAVY	RDTE/Other Defense-Basic Research	670	
	FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Other Defense-Basic Research	370	
	FLUID PHYSICS INC	California	USAF	RDTE/Other Defense-Basic Research	61	
	FMC CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	190	
	FORD AEROSPACE COMMOTIONS CORP	California	NAVY	RDTE/Other Defense-Basic Research	123	
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Defense-Basic Research	350	
	FOUNDATION FOR SOVIET STUDENTS	Maryland	ARMY	RDTE/Other Defense-Basic Research	35	
	FUJITA T THEODORE	Illinois	NAVY	RDTE/Other Defense-Basic Research	60	
	GTE LABORATORIES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	37	
	GENERAL ATOMICS	California	ARMY	RDTE/Other Defense-Basic Research	40	
			NAVY	RDTE/Other Defense-Basic Research	168	
			COUNTRY TOTAL		208	
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Defense-Basic Research	1,130	
			NAVY	RDTE/Other Defense-Basic Research	210	
			COUNTRY TOTAL		1,340	

A091 (CONTINUED)

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	86
AD91 (CONTINUED)						
	CONTRACTOR TOTAL	Conn		NAVY RDTE/Other Defense-Basic Research		1,426
GENERAL ELECTRIC CO	Arizona	USAF		RDTE/Other Defense-Basic Research	\$	198
	Mass	NAVY		RDTE/Other Defense-Basic Research		200
	New Jersey	NAVY		RDTE/Other Defense-Basic Research		142
	New York	NAVY	USAF	RDTE/Other Defense-Basic Research		247
				RDTE/Other Defense-Basic Research		108
	COUNTRY TOTAL					355
	Ohio	USAF		RDTE/Other Defense-Basic Research		140
	CONTRACTOR TOTAL					1,035
GENERAL HOSPITAL CORPORATION	Mass	NAVY		RDTE/Other Defense-Basic Research	\$	61
GENERAL MOTORS CORPORATION	Indiana	USAF		RDTE/Other Defense-Basic Research		127
GENERAL RESEARCH CORPORATION	California	NAVY		RDTE/Other Defense-Basic Research		329
GEO CENTERS INC	Mass	ARMY		RDTE/Other Defense-Basic Research		100
GEORGE MASON UNIVERSITY	Virginia	NAVY		RDTE/Other Defense-Basic Research		554
GEORGE WASHINGTON UNIV THE	D.C.	NAVY		RDTE/Other Defense-Basic Research		288
GEorgetown UNIVERSITY	D.C.	NAVY		RDTE/Other Defense-Basic Research		122
GEORGIA STATE OF	Georgia	NAVY		RDTE/Other Defense-Basic Research		248
GEORGIA STATE UNIVERSITY	Georgia	NAVY		RDTE/Other Defense-Basic Research		30
GEORGIA TECH RESEARCH INST	Georgia	NAVY	USAF	RDTE/Other Defense-Basic Research		1,862
				RDTE/Other Defense-Basic Research		397
	COUNTRY TOTAL					2,259
GRAMMATECH INC	New York	NAVY		RDTE/Other Defense-Basic Research		50
HARRIS CORPORATION	Florida	NAVY		RDTE/Other Defense-Basic Research		2,390
				RDTE/Other Defense-Basic Research		351

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
		COUNTRY TOTAL			
	HARVARD UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Basic Research	2,741
	HELICON FOUNDATION THE	California	NAVY	RDTE/Other Defense-Basic Research	2,314
	HLR SCIENCES INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research	60
	HONEYWELL INC	California	NAVY	RDTE/Other Defense-Basic Research	261
		Minnesota	ARMY	RDTE/Other Defense-Basic Research	33
			NAVY	RDTE/Other Defense-Basic Research	295
		COUNTRY TOTAL			440
					735
		Virginia	NAVY	RDTE/Other Defense-Basic Research	75
		COUNTRY TOTAL			843
	HORIZON TECHNOLOGY	Virginia	NAVY	RDTE/Other Defense-Basic Research	125
	HORRIGAN ANALYTICS	Illinois	NAVY	RDTE/Other Defense-Basic Research	250
	HOWARD UNIVERSITY	D.C.	NAVY	RDTE/Other Defense-Basic Research	43
	HRB SINGER INC	Penn	NAVY	RDTE/Other Defense-Basic Research	28
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Other Defense-Basic Research	1,577
			USAF	RDTE/Other Defense-Basic Research	9,445
		COUNTRY TOTAL			11,022
	HUGHES ASSOCIATES INC	Maryland	USAF	RDTE/Other Defense-Basic Research	48
	HUMRRO INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	247
			NAVY	RDTE/Other Defense-Basic Research	107
		COUNTRY TOTAL			354
	HURD HARRY L ASSOCIATES INC	N Carolina	NAVY	RDTE/Other Defense-Basic Research	319
	HYPRES INC	New York	NAVY	RDTE/Other Defense-Basic Research	210
	I A P RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Basic Research	75

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
IIT RESEARCH INSTITUTE	Illinois	ARMY NAVY		RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	\$ 473
		COUNTRY TOTAL			125
IWG CORP	California	NAVY		RDTE/Other Defense-Basic Research	598
ICECASTING INC	Washington	NAVY		RDTE/Other Defense-Basic Research	59
IMPACT ASSESSMENT INC	California	NAVY		RDTE/Other Defense-Basic Research	84
INDIANA UNIVERSITY FOUNDATION	Indiana	NAVY		RDTE/Other Defense-Basic Research	29
INERTIA SWITCH INC	New York	NAVY		RDTE/Other Defense-Basic Research	223
INFORMATION PLANNING ASSOC	Virginia	NAVY		RDTE/Other Defense-Basic Research	122
INFORMATION SPECTRUM INC	Virginia	ARMY		RDTE/Other Defense-Basic Research	776
INFORMATION VENTURES INC	Penn	NAVY		RDTE/Other Defense-Basic Research	60
INFOSOFT DESIGN ASSOC	Penn	NAVY		RDTE/Other Defense-Basic Research	33
INSTITUTE FOR SCIENTIFIC STUD	Texas	NAVY		RDTE/Other Defense-Basic Research	30
INTERACTIVE TV COMPANY	Virginia	ARMY		RDTE/Other Defense-Basic Research	97
INTERNATIONAL BUS MCHS CORP	California	NAVY		RDTE/Other Defense-Basic Research	2,195
	New York	NAVY		RDTE/Other Defense-Basic Research	699
	Virginia	NAVY		RDTE/Other Defense-Basic Research	1,025
CONTRACTOR TOTAL					1,862
INTERNATIONAL FUEL CELLS CORP	Conn	NAVY		RDTE/Other Defense-Basic Research	425
INTRASPACE CORP	Utah	NAVY		RDTE/Other Defense-Basic Research	4,042
IOWA STATE UNIV SCNC	Iowa	NAVY USAF		RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	226 84
		COUNTRY TOTAL			310
IRVINE SENSORS CORPORATION	California	USAF		RDTE/Other Defense-Basic Research	630

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD91 (CONTINUED)						
	INT CORPORATION	Indiana	USAF	RDTE/Other Defense-Basic Research	\$ 252	
		New Jersey	USAF	RDTE/Other Defense-Basic Research	425	
	CONTRACTOR TOTAL				677	
JACKSON LABORATORY THE	Maine	NAVY	RDTE/Other Defense-Basic Research		88	
JACKSON STATE UNIVERSITY	Miss.	NAVY	RDTE/Other Defense-Basic Research		56	
JAYCOR	Virginia	NAVY	RDTE/Other Defense-Basic Research		94	
JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Other Defense-Basic Research		2,455	
JORTNER RESEARCH & ENRG	California	NAVY	RDTE/Other Defense-Basic Research		50	
KANSAS STATE UNIVERSITY	Kansas	NAVY	RDTE/Other Defense-Basic Research		251	
KESTREL INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research		296	
KETRON INC	Penn	NAVY	RDTE/Other Defense-Basic Research		66	
KOR ELECTRONICS	California	NAVY	RDTE/Other Defense-Basic Research		635	
L N K CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research		427	
LA JOLLA INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research		685	
LANXIDE CORP	Delaware	NAVY	RDTE/Other Defense-Basic Research		1,830	
LASERGENICS CORPORATION	California	ARMY	RDTE/Other Defense-Basic Research		243	
LEHIGH UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Basic Research		850	
LIFE CELL CORP	Texas	NAVY	RDTE/Other Defense-Basic Research		50	
LITHIUM ENERGY ASSOC INC	Mass	NAVY	RDTE/Other Defense-Basic Research		50	
LITTON INDUSTRIES INC	Mass	NAVY	RDTE/Other Defense-Basic Research		412	
LITTON SYSTEMS INC	California	ARMY	RDTE/Other Defense-Basic Research		250	
	Georgia	ARMY	RDTE/Other Defense-Basic Research		1,581	
	New Jersey	NAVY	RDTE/Other Defense-Basic Research		85	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				
	LOCKHEED CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	75
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Defense-Basic Research	1,615
		NAVY	RDTE/Other Defense-Basic Research	1,055	
		COUNTRY TOTAL			2,670
	LOCUS INC	Penn	NAVY	RDTE/Other Defense-Basic Research	538
	LORAL CORPORATION	Ohio	NAVY	RDTE/Other Defense-Basic Research	210
	LOUISIANA STATE UNIVERSITY	Louisiana	NAVY	RDTE/Other Defense-Basic Research	740
		USAFAF	RDTE/Other Defense-Basic Research	50	
		COUNTRY TOTAL			790
	LOYOLA COLLEGE	Maryland	NAVY	RDTE/Other Defense-Basic Research	64
	LOYOLA UNIVERSITY OF CHICAGO	Illinois	NAVY	RDTE/Other Defense-Basic Research	48
	M M R TECHNOLOGIES INC	California	NAVY	RDTE/Other Defense-Basic Research	79
	MAC AULAY BROWN INC	Ohio	ARMY	RDTE/Other Defense-Basic Research	98
		USAFAF	RDTE/Other Defense-Basic Research	1,410	
		COUNTRY TOTAL			1,508
	MAGNAVOX GOVT & INDSTRL ELCTR	Indiana	USAFAF	RDTE/Other Defense-Basic Research	404
	MANTECH INTERNATIONAL CORP	Ohio	USAFAF	RDTE/Other Defense-Basic Research	184
	MARINE BIOLOGICAL LABORATORY	Mass	NAVY	RDTE/Other Defense-Basic Research	49
	MARINE IMAGING SYSTEMS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	281
	MARTIN MARIETTA CORPORATION	Colorado	NAVY	RDTE/Other Defense-Basic Research	284
		Florida	ARMY	RDTE/Other Defense-Basic Research	29
		USAFAF	RDTE/Other Defense-Basic Research	100	
		COUNTRY TOTAL			129
	Maryland	NAVY	RDTE/Other Defense-Basic Research	277	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	690
	MARYLAND MEDICAL LABORATORY	Maryland	NAVY	RDTE/Other Defense-Basic Research		50-
	MASSACHSETTS INST OF TCHNOLOGY	Mass	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		15,757 110
			COUNTRY TOTAL			15,867
	MASSACHUSETTS UNIVERSITY OF MATERIAL & ELECTROCHEMICAL RES	Mass	NAVY	RDTE/Other Defense-Basic Research		2,222
	MATERIAL MODIFICATIONS INC	Arizona	USAF	RDTE/Other Defense-Basic Research		500
	MATERIAL SCIENCES CORP	Virginia	NAVY	RDTE/Other Defense-Basic Research		53
	MATERIALS TECHNOLOGIES CORP	Penn	NAVY	RDTE/Other Defense-Basic Research		148
	MAXIM TECHNOLOGIES INC	Conn	NAVY	RDTE/Other Defense-Basic Research		55
	MAYO FOUNDATION	California	NAVY	RDTE/Other Defense-Basic Research		226
	MC DONNELL DOUGLAS CORPORATION	New York	NAVY	RDTE/Other Defense-Basic Research		50
	MCPHEE RESEARCH CO	California	NAVY	RDTE/Other Defense-Basic Research		1,885
	MEDICAL COLLEGE OF PA	Washington	NAVY	RDTE/Other Defense-Basic Research		181
	MEDICAL RES FNDTION OF OREGON	Oregon	NAVY	RDTE/Other Defense-Basic Research		139
	MEDWIN HERMAN DR	California	NAVY	RDTE/Other Defense-Basic Research		37
	MEMORY METALS CORPORATION	Conn	NAVY	RDTE/Other Defense-Basic Research		55
	MEMPHIS STATE UNIVERSITY	Tennessee	NAVY	RDTE/Other Defense-Basic Research		45
	MERIDIAN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Basic Research		164
	MERRIFIELD LABORATORIES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		90
	MESA INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		97
	METRATEK INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		253
						111

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)		R&D DESCRIPTION
				COUNTY	TOTAL	
METSAT INC	Colorado	NAVY	RDTE/Other Defense-Basic Research	\$ 598		
MICHIGAN STATE UNIVERSITY	Michigan	NAVY	RDTE/Other Defense-Basic Research	451		
MICHIGAN TECHNLGICAL UNIVERSITY	Michigan	ARMY	RDTE/Other Defense-Basic Research	87		
		NAVY	RDTE/Other Defense-Basic Research	68		
			COUNTRY TOTAL	155		
MICROLCTRNICS CTR OF N CRLINA	N Carolina	NAVY	RDTE/Other Defense-Basic Research	120		
MINISTRY OF DEFENSE UK	UNITED KIN	ARMY	RDTE/Other Defense-Basic Research	2,440		
MINNESOTA MIN & MFG COMPANY	Minnesota	USAF	RDTE/Other Defense-Basic Research	195		
MISSOURI UNIVERSITY OF	Missouri	NAVY	RDTE/Other Defense-Basic Research	367		
MOLECULAR TECH INC	Mass	USAF	RDTE/Other Defense-Basic Research	49		
MONTANA STATE UNIVERSITY	Montana	NAVY	RDTE/Other Defense-Basic Research	164		
MONTEREY BAY	California	NAVY	RDTE/Other Defense-Basic Research	56		
NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Basic Research	771		
NATIONAL OPINION RESEARCH CTR	Illinois	NAVY	RDTE/Other Defense-Basic Research	103		
NATIONAL SCIENCE FOUNDATION	D.C.	NAVY	RDTE/Other Defense-Basic Research	850		
NATIONAL TECHNLGICAL UNIVERSITY	Colorado	NAVY	RDTE/Other Defense-Basic Research	100		
NEUROSCIENCES RES FOUNDATION	New York	NAVY	RDTE/Other Defense-Basic Research	307		
NEW HAMPSHIRE UNIVERSITY SYS	N.H.	NAVY	RDTE/Other Defense-Basic Research	100		
NEW JERSEY INST OF TECHNOLOGY	New Jersey	NAVY	RDTE/Other Defense-Basic Research	81		
NEW YORK BLOOD CENTER INC	New York	NAVY	RDTE/Other Defense-Basic Research	340		
NEW YORK UNIVERSITY	New York	ARMY	RDTE/Other Defense-Basic Research	109		
		NAVY	RDTE/Other Defense-Basic Research	1,221		
			COUNTRY TOTAL	1,330		
NICHOLS RESEARCH CORPORATION	Alabama	NAVY	RDTE/Other Defense-Basic Research	122		

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	--R&D DESCRIPTION--	
AD91 (CONTINUED)					
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Defense-Basic Research	\$ 31
	NORTH AMER CORROSION CONSULT	Ohio	NAVY	RDTE/Other Defense-Basic Research	50
	NORTH CAROLINA A & T UNIV	N Carolina	NAVY	RDTE/Other Defense-Basic Research	245
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Basic Research	2,868
	NORTH EAST SEMICONDUCTOR INC	New York	NAVY	RDTE/Other Defense-Basic Research	50
	NORTHEASTERN OH UNIV CLG MD	Ohio	NAVY	RDTE/Other Defense-Basic Research	48
	NORTHEASTERN UNIVERSITY CORP	Mass	NAVY	RDTE/Other Defense-Basic Research	176
	NORTHERN ILLINOIS UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Basic Research	99
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	1,000
	NORTHWEST RESEARCH ASSOCIATES	Washington	NAVY	RDTE/Other Defense-Basic Research	218
	NORTHWEST RSCH ASSOC INC	Washington	NAVY	RDTE/Other Defense-Basic Research	160
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Basic Research	943
		USAF	RDTE/Other Defense-Basic Research	100	
	COUNTRY TOTAL				1,043
	NOVA UNIVERSITY INC	Florida	NAVY	RDTE/Other Defense-Basic Research	72
	OAKLAND UNIVERSITY	Michigan	NAVY	RDTE/Other Defense-Basic Research	28
	OCEAN DATA SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	1,732
	OCEAN REMOTE SENSING & ENRG	California	NAVY	RDTE/Other Defense-Basic Research	685
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Basic Research	108
			NAVY	RDTE/Other Defense-Basic Research	575
			USAF	RDTE/Other Defense-Basic Research	66
	COUNTRY TOTAL				749
	OKLAHOMA STATE UNIVERSITY	Oklahoma	NAVY	RDTE/Other Defense-Basic Research	197
	OLD DMNION UNIV RES FOUNDATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	225

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AD91 (CONTINUED)					
	ONEIDA RESOURCES INC	Ohio	USAF	RDTE/Other Defense-Basic Research	\$ 110
	OPTICAL SHIELDS LIMITED	California	ARMY	RDTE/Other Defense-Basic Research	371
	OPTICOMP CORPORATION	Nevada	NAVY	RDTE/Other Defense-Basic Research	580
	OPTIVISION INC	California	NAVY	RDTE/Other Defense-Basic Research	300
	OPTRON SYSTEMS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	300
			USAF	RDTE/Other Defense-Basic Research	61
				COUNTRY TOTAL	361
	OREGON GRAD CNTR STUCY RESERCH	Oregon	NAVY	RDTE/Other Defense-Basic Research	125
	OREGON STATE UNIVERSITY	Oregon	NAVY	RDTE/Other Defense-Basic Research	4,093
	ORINCON CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	289
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Basic Research	57
	OVONIC SYNTHETIC MATERIALS CO	Michigan	NAVY	RDTE/Other Defense-Basic Research	162
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Other Defense-Basic Research	834
	PARKER HANNIFIN CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	120
	PENNSYLVANIA STATE UNIV THE	Penn	ARMY	RDTE/Other Defense-Basic Research	67
			NAVY	RDTE/Other Defense-Basic Research	5,316
				COUNTRY TOTAL	5,383
	PENNZOIL COMPANY	Texas	NAVY	RDTE/Other Defense-Basic Research	83
	PFCEPTRONICS INC	California	ARMY	RDTE/Other Defense-Basic Research	92
	PERK. N ELMER CORPORATION	Conn	NAVY	RDTE/Other Defense-Basic Research	2,000
	PERSONNEL DCSONS RES INSTITUTE	Minnesota	NAVY	RDTE/Other Defense-Basic Research	432
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research	358
	PHYSICAL DYNAMICS INC	California	NAVY	RDTE/Other Defense-Basic Research	57
		Virginia	NAVY	RDTE/Other Defense-Basic Research	362

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
CONTRACTOR TOTAL						
	PHYSICAL RESEARCH INC	California		NAVY RDTE/Other Defense-Basic Research	75	
	PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Basic Research	1,092	
		Mass	NAVY	RDTE/Other Defense-Basic Research	268	
CONTRACTOR TOTAL						
	PLANNING SYSTEMS INCORPORATED	Virginia		NAVY RDTE/Other Defense-Basic Research	419	
	POLARIS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	2,232	
	POLYTECHNIC UNIV OF NEW YORK	New York	NAVY	RDTE/Other Defense-Basic Research	716	
	PORTLAND STATE UNIVERSITY	Oregon	NAVY	RDTE/Other Defense-Basic Research	747	
	POWER SPECTRA INC	California	NAVY	RDTE/Other Defense-Basic Research	50	
	PRECISION NAVIGATION INC	California	ARMY	RDTE/Other Defense-Basic Research	94	
	PRINCETON UNIVERSITY	New Jersey	NAVY	RDTE/Other Defense-Basic Research	142	
	PRODUCT PLANNING INC	Illinois	NAVY	RDTE/Other Defense-Basic Research	3,204	
	PROFESSIONAL MANAGEMENT ASSOC	Maryland	NAVY	RDTE/Other Defense-Basic Research	50	
	PROGRAM RESOURCES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	149	
	PUBLIC HEALTH RESEARCH	New York	NAVY	RDTE/Other Defense-Basic Research	285	
	PULSE SCIENCES INC	California	NAVY	RDTE/Other Defense-Basic Research	49	
	PURDUE UNIVERSITY	Indiana	NAVY USAF	RDTE/Other Defense-Basic Research	148	
				RDTE/Other Defense-Basic Research	4,022	
				RDTE/Other Defense-Basic Research	37	
COUNTRY TOTAL						
	QUANTEX CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	263	
	QUANTIC INDUSTRIES INC	California	NAVY	RDTE/Other Defense-Basic Research	54	
	QUESTECH INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	200	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD91 (CONTINUED)						
	R & D ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research	\$ 1,467	
	RADIATION SCIENCE INC	Mass	NAVY	RDTE/Other Defense-Basic Research	60	
	RAVEN INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	136	
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Other Defense-Basic Research	409	
		Rhode Isld	NAVY	RDTE/Other Defense-Basic Research	276	
	CONTRACTOR TOTAL				685	
	RDA INTL	California	ARMY	RDTE/Other Defense-Basic Research	252	
	REKENTHALER TECHNOLOGY ASSOC	Maryland	NAVY	RDTE/Other Defense-Basic Research	50	
	RENSSLEAER POLYTECHNIC INST	New York	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	48 2,953	
	COUNTRY TOTAL				3,001	
	RESEARCH OPPORTUNITIES INC	California	NAVY	RDTE/Other Defense-Basic Research	218	
	RESEARCH TRIANGLE INSTITUTE	N Carolina	NAVY	RDTE/Other Defense-Basic Research	634	
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	94	
	RICE WILLIAM MARSH UNIVERSITY	Texas	NAVY	RDTE/Other Defense-Basic Research	502	
	RIVERSIDE RESEARCH INSTITUTE	New York	NAVY	RDTE/Other Defense-Basic Research	113	
	ROCKWELL INTERNATIONAL CORP	California	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	2,470 141	
	COUNTRY TOTAL				2,611	
	RONDOUT ASSOCIATES INC	New York	NAVY	RDTE/Other Defense-Basic Research	198	
	ROSWELL PARK MEM INST	New York	NAVY	RDTE/Other Defense-Basic Research	199	
	ROTHE DEVELOPMENTS INC	Texas	USAF	RDTE/Other Defense-Basic Research	83	
	ROWE DEINES INSTRUMENTS INC	California	NAVY	RDTE/Other Defense-Basic Research	234	
	RUTGERS THE STATE UNIVERSITY	New Jersey	NAVY	RDTE/Other Defense-Basic Research	1,200	

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		(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	\$ 2,340
	SAN JOSE STATE UNIVERSITY	California	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	264 55
	COUNTRY TOTAL				319
	SANDIA CORPORATION	New Mexico	NAVY	RDTE/Other Defense-Basic Research	190
	SCHAFFER W J ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	900
	SCHMIDT INSTRUMENTS	Texas	NAVY	RDTE/Other Defense-Basic Research	50
	SCHMITT TECHNOLOGY	Conn	NAVY	RDTE/Other Defense-Basic Research	287
	SCIENCE & TECHNOLOGY CORP	New Mexico	ARMY	RDTE/Other Defense-Basic Research	792
		Virginia	NAVY	RDTE/Other Defense-Basic Research	93
	CONTRACTOR TOTAL				885
	SCIENCE APPLICATIONS INT'L CORP	California	NAVY	RDTE/Other Defense-Basic Research	8,217
		Colorado	ARMY	RDTE/Other Defense-Basic Research	90
		D.C.	NAVY	RDTE/Other Defense-Basic Research	443
		Virginia	ARMY NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	675 863 75
	COUNTRY TOTAL				1,613
	CONTRACTOR TOTAL				10,363
	SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Defense-Basic Research	1,596
	SCIENTIFIC COMPUTING ASSOC	Conn	NAVY	RDTE/Other Defense-Basic Research	62
	SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY	RDTE/Other Defense-Basic Research	433
	SCRIPPS CLINIC RES FOUNDATION	California	NAVY	RDTE/Other Defense-Basic Research	205
	SEARCH TECHNOLOGY INC	Georgia	NAVY	RDTE/Other Defense-Basic Research	108

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD91 (CONTINUED)						
	SIAGENIC INC	Indiana	NAVY	RDTE/Other Defense-Basic Research	\$ 250	
	SIERRA MONOLITHICS INC	California	NAVY	RDTE/Other Defense-Basic Research	50	
	SIGNITION INCORPORATED	New Mexico	NAVY	RDTE/Other Defense-Basic Research	248	
	SMITHSONIAN INSTITUTION	Mass	NAVY	RDTE/Other Defense-Basic Research	150	
	SOFTWARE CONSULTANT INTL LTD	Washington	NAVY	RDTE/Other Defense-Basic Research	346	
	SONALYSTS INC	Conn	NAVY	RDTE/Other Defense-Basic Research	359	
	SONOQUEST ADVANCED	Mass	NAVY	RDTE/Other Defense-Basic Research	52	
	SNUTH CAROLINA RES AUTHORITY	S Carolina	NAVY	RDTE/Other Defense-Basic Research	14,225	
	SOUTHEASTIN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Basic Research	379	
		Mass	USAF	RDTE/Other Defense-Basic Research	113	
	CONTRACTOR TOTAL					
	SOUTHERN ILLINOIS UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Basic Research	314	
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Defense-Basic Research	4,570	
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama	ARMY	RDTE/Other Defense-Basic Research	3,050	
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	98 229	
	COUNTRY TOTAL					
	SPACE COMPUTER CORP	California	NAVY	RDTE/Other Defense-Basic Research	485	
	SPACE POWER INCORPORATED	California	NAVY	RDTE/Other Defense-Basic Research	320	
	SPACE TECH CORP	Colorado	NAVY	RDTE/Other Defense-Basic Research	48	
	SPARTA INC	California	NAVY	RDTE/Other Defense-Basic Research	292	
	SPECTRON DEVELOPMENT LABS	California	NAVY	RDTE/Other Defense-Basic Research	80	
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Defense-Basic Research	5,337	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD91 (CONTINUED)						
		COUNTRY TOTAL		USAF RDTE/Other Defense-Basic Research	\$ 182	
STANFORD LEMLAND JUNIOR UNIV		California USAF	NAVY	RDTE/Other Defense-Basic Research	5,519	
		COUNTRY TOTAL		RDTE/Other Defense-Basic Research	13,866	
		New Jersey	NAVY	RDTE/Other Defense-Basic Research	13,945	
		COUNTRY TOTAL		RDTE/Other Defense-Basic Research	145	
STATE UNIVERSITY OF NEW YORK	New York	NAVY	NAVY	RDTE/Other Defense-Basic Research	1,846	
STEVENS INST OF TECHNOLOGY	New Jersey	NAVY	NAVY	RDTE/Other Defense-Basic Research	174	
STRATEGIC ANALYSIS INC	Virginia	ARMY	NAVY	RDTE/Other Defense-Basic Research	177	
		COUNTRY TOTAL		RDTE/Other Defense-Basic Research	181	
				RDTE/Other Defense-Basic Research	358	
STRATEGIC RESEARCH & MGT SVS	Virginia	NAVY	NAVY	RDTE/Other Defense-Basic Research	157	
SUMMIT RESEARCH CORPORATION	Maryland	NAVY	NAVY	RDTE/Other Defense-Basic Research	43	
SWALES & ASSOCIATES	Maryland	NAVY	NAVY	RDTE/Other Defense-Basic Research	209	
SWALES & ASSOCIATES INC	Maryland	NAVY	NAVY	RDTE/Other Defense-Basic Research	590	
SYNERGEN INC	Colorado	NAVY	NAVY	RDTE/Other Defense-Basic Research	49	
SYNERGY INC	D.C.	NAVY	NAVY	RDTE/Other Defense-Basic Research	150	
SYNERTECH ASSOCIATES INC	Virginia	NAVY	NAVY	RDTE/Other Defense-Basic Research	254	
SYNTEK ENGR COMPUTER SYSTEMS	Maryland	NAVY	NAVY	RDTE/Other Defense-Basic Research	27	
SYNTEX ENGR & COMPUTER SYSTEMS	Maryland	NAVY	NAVY	RDTE/Other Defense-Basic Research	47	
SYRACUSE UNIVERSITY	New York	NAVY	NAVY	RDTE/Other Defense-Basic Research	216	
SYSTEMS & ELECTRONICS INC	Illinois	NAVY	NAVY	RDTE/Other Defense-Basic Research	3,727	
SYSTEMS & PROCESSES ENRG CORP	Texas	NAVY	NAVY	RDTE/Other Defense-Basic Research	50	

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CONTRACTOR NAME		COUNTRY	DEPT	R&D DESCRIPTION	(AMOUNTS IN THOUSANDS)
SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Other Defense-Basic Research	\$ 2,907	
SYSTEMS PLANNING CORP	Virginia	ARMY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	5,488 206	
				5,694	
SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Basic Research	1,865	
	Texas	USAF	RDTE/Other Defense-Basic Research	37	
				1,902	
CONTRACTOR TOTAL					
TECHNO-SCIENCES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	118	
TECHNOLOGY U S A INCORPORATED	Maryland	NAVY	RDTE/Other Defense-Basic Research	128	
TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Other Defense-Basic Research	200	
	Texas	NAVY	RDTE/Other Defense-Basic Research	67	
				267	
CONTRACTOR TOTAL					
TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Other Defense-Basic Research	613	
TEXAS CHRISTIAN UNIVERSITY	Texas	NAVY	RDTE/Other Defense-Basic Research	105	
TEXAS INSTRUMENTS INCORPORATED	Colorado	USAF	RDTE/Other Defense-Basic Research	99	
	Texas	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	2,116 312	
				2,428	
COUNTRY TOTAL					
CONTRACTOR TOTAL					
TEXAS TECH UNIVERSITY	Texas	NAVY	RDTE/Other Defense-Basic Research	80	
TERMO ELECTRON TECH CORP	California	NAVY	RDTE/Other Defense-Basic Research	2,332	
THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Other Defense-Basic Research	672	
THIOKOL CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	123	
	Utah	NAVY	RDTE/Other Defense-Basic Research	65	
				2,527	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
CONTRACTOR TOTAL						
	THOMSON CSF INC	California	NAVY	RDTE/Other Defense-Basic Research	150	
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Basic Research	398	
	TRANS SCIENCE CORP	California	NAVY	RDTE/Other Defense-Basic Research	397	
	TRIFID CORP	Missouri	ARMY	RDTE/Other Defense-Basic Research	50	
	TRUAX ENGINEERING	California	NAVY	RDTE/Other Defense-Basic Research	1,637	
	TRUX ENGINEERING INC	California	NAVY	RDTE/Other Defense-Basic Research	842	
	TRW INC	California	NAVY	RDTE/Other Defense-Basic Research	6,338	
		Georgia	USAF	RDTE/Other Defense-Basic Research	207	
		Ohio	USAF	RDTE/Other Defense-Basic Research	1,458	
CONTRACTOR TOTAL						
	MASS	NAVY	RDTE/Other Defense-Basic Research	56		
	Louisiana	NAVY	RDTE/Other Defense-Basic Research	105		
	Alabama	NAVY	RDTE/Other Defense-Basic Research	270		
	MARYLAND	NAVY	RDTE/Other Defense-Basic Research	75		
	CALIFORNIA	NAVY	RDTE/Other Defense-Basic Research	50		
	PENN	NAVY	RDTE/Other Defense-Basic Research	1,915		
	Virginia	USAF	RDTE/Other Defense-Basic Research	937		
CONTRACTOR TOTAL						
	UNITED STATES DEPT ENERGY	California	NAVY	RDTE/Other Defense-Basic Research	2,852	
	D.C.	NAVY	RDTE/Other Defense-Basic Research	363		
	ILLINOIS	NAVY	RDTE/Other Defense-Basic Research	400		
	TENNESSEE	NAVY	RDTE/Other Defense-Basic Research	230		
				238		

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
CONTRACTOR TOTAL					
UNITED STATES DEPT INTERIOR	Arizona	NAVY	RDTE/Other Defense-Basic Research		1,231
	California	NAVY	RDTE/Other Defense-Basic Research		30
	Virginia	NAVY	RDTE/Other Defense-Basic Research		122
CONTRACTOR TOTAL					
UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Other Defense-Basic Research		297
	Maryland	NAVY	RDTE/Other Defense-Basic Research		2,222
	Miss	NAVY	RDTE/Other Defense-Basic Research		70
	Washington	NAVY	RDTE/Other Defense-Basic Research		249
CONTRACTOR TOTAL					
UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Other Defense-Basic Research		2,838
	Florida	NAVY	RDTE/Other Defense-Basic Research		1,921
		USAF	RDTE/Other Defense-Basic Research		1,636
COUNTRY TOTAL					
					1,665
CONTRACTOR TOTAL					
UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Basic Research		3,586
UNIVERSAL VOLTRONICS CORP	New York	ARMY	RDTE/Other Defense-Basic Research		2,342
UNIVERSITY OF AKRON	Ohio	NAVY	RDTE/Other Defense-Basic Research		49
UNIVERSITY OF ALABAMA	Alabama	NAVY	RDTE/Other Defense-Basic Research		43
UNIVERSITY OF ALASKA	Alaska	NAVY	RDTE/Other Defense-Basic Research		50
UNIVERSITY OF ARIZONA	Arizona	NAVY	RDTE/Other Defense-Basic Research		163
UNIVERSITY OF ARKANSAS	Arkansas	NAVY	RDTE/Other Defense-Basic Research		924
UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Defense-Basic Research		204
					30,365

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD91 (CONTINUED)						
		COUNTRY TOTAL		USAF RDTE/Other Defense-Basic Research	\$ 640	
UNIVERSITY OF CENTRAL FLORIDA		Florida	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	100 451	31,005
UNIVERSITY OF CHICAGO THE		Illinois	NAVY	RDTE/Other Defense-Basic Research	551	
UNIVERSITY OF COLORADO		Colorado	NAVY	RDTE/Other Defense-Basic Research	1,355	
UNIVERSITY OF CONNECTICUT		Conn	NAVY	RDTE/Other Defense-Basic Research	1,259	
UNIVERSITY OF DAYTON		Ohio	USAF	RDTE/Other Defense-Basic Research	1,473	
UNIVERSITY OF DELAWARE		Delaware	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	1,784 389	69
UNIVERSITY OF DENVER		Colorado	USAF	RDTE/Other Defense-Basic Research	458	
UNIVERSITY OF FLORIDA		Florida	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	865 100	
UNIVERSITY OF GEORGIA		Illinois	NAVY	RDTE/Other Defense-Basic Research	60	
UNIVERSITY OF HAWAII		Hawaii	NAVY	RDTE/Other Defense-Basic Research	160	
UNIVERSITY OF HEALTH SCIENCES		Texas	NAVY	RDTE/Other Defense-Basic Research	50	
UNIVERSITY OF HOUSTON SYSTEM		Idaho	NAVY	RDTE/Other Defense-Basic Research	1,574	
UNIVERSITY OF IDAHO		Illinois	ARMY NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	100 213 52	
UNIVERSITY OF ILLINOIS		Iowa	ARMY	RDTE/Other Defense-Basic Research	220	
UNIVERSITY OF IOWA THE				COUNTRY TOTAL	6,378	
				UNIVERSITY OF IOWA THE	143	
				COUNTRY TOTAL	6,741	
				UNIVERSITY OF IOWA THE	140	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION - - - - -	\$	
AD91 (CONTINUED)						
				COUNTRY TOTAL		
UNIVERSITY OF KANSAS		Kansas	NAVY	RDTE/Other Defense-Basic Research	\$ 435	575
UNIVERSITY OF KENTUCKY		Kentucky	NAVY	RDTE/Other Defense-Basic Research		153
UNIVERSITY OF LOUISVILLE		Kentucky	NAVY	RDTE/Other Defense-Basic Research		161
UNIVERSITY OF LOWELL		Mass	NAVY	RDTE/Other Defense-Basic Research		65
UNIVERSITY OF MARYLAND		Maryland	NAVY	RDTE/Other Defense-Basic Research		231
UNIVERSITY OF MIAMI INC		Florida	NAVY	RDTE/Other Defense-Basic Research		3,589
UNIVERSITY OF MICHIGAN		Michigan	ARMY NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		167 2,140
				COUNTRY TOTAL		3,061
UNIVERSITY OF MINNESOTA		Minnesota	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		27,500 745
				COUNTRY TOTAL		28,245
UNIVERSITY OF MISSISSIPPI		Miss	NAVY	RDTE/Other Defense-Basic Research		176
UNIVERSITY OF NEBRASKA		Nebraska	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		204 104
				COUNTRY TOTAL		308
UNIVERSITY OF NEW MEXICO		New Mexico	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		230 48
				COUNTRY TOTAL		278
CONTRACTOR TOTAL		Texas	NAVY	RDTE/Other Defense-Basic Research		50
UNIVERSITY OF NORTH CAROLINA	N Carolina		ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		328 1,320
						135 1,320

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		(AMOUNTS IN THOUSANDS)		R&D DESCRIPTION	\$	150
R&D	CONTRACTOR NAME	COUNTRY	DEPT			
				USAF	RDTE/Other Defense-Basic Research	\$ 1,605
				COUNTRY TOTAL	RDTE/Other Defense-Basic Research	43
	UNIVERSITY OF NOTRE DAME	Indiana	NAVY USAF	RDTE/Other Defense-Basic Research	32	75
	UNIVERSITY OF OREGON	Oregon	NAVY	RDTE/Other Defense-Basic Research	579	579
	UNIVERSITY OF PENNSYLVANIA	Penn	NAVY	RDTE/Other Defense-Basic Research	4,983	4,983
	UNIVERSITY OF PITTSBURGH	Penn	NAVY USAF	RDTE/Other Defense-Basic Research	900	900
				COUNTRY TOTAL	RDTE/Other Defense-Basic Research	26
	UNIVERSITY OF PUERTO RICO	Puerto Rico	NAVY	RDTE/Other Defense-Basic Research	926	926
	UNIVERSITY OF RHODE ISLAND	Rhode Isld	NAVY	RDTE/Other Defense-Basic Research	210	210
	UNIVERSITY OF ROCHESTER	New York	NAVY	RDTE/Other Defense-Basic Research	1,947	1,947
	UNIVERSITY OF SOUTH ALABAMA	Alabama	NAVY	RDTE/Other Defense-Basic Research	789	789
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	NAVY	RDTE/Other Defense-Basic Research	120	120
	UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Other Defense-Basic Research	133	133
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY NAVY	RDTE/Other Defense-Basic Research	329	329
				COUNTRY TOTAL	RDTE/Other Defense-Basic Research	2,910
	UNIVERSITY OF TENNESSEE	Tennessee	NAVY	RDTE/Other Defense-Basic Research	2,945	2,945
	UNIVERSITY C ^E TEXAS SYSTEM	Nebraska	ARMY	RDTE/Other Defense-Basic Research	5,855	5,855
		Texas	NAVY USAF	RDTE/Other Defense-Basic Research	881	881
				COUNTRY TOTAL	RDTE/Other Defense-Basic Research	75
				CONTRACTOR TOTAL	2,766	2,766
					2,858	2,858
					2,933	2,933

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD91 (CONTINUED)						
	UNIVERSITY OF UTAH	Utah		NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	
				COUNTRY TOTAL		1,409
UNIVERSITY OF VIRGINIA	Virginia	NAVY		RDTE/Other Defense-Basic Research		639
UNIVERSITY OF WASHINGTON	Washington	NAVY		RDTE/Other Defense-Basic Research		10,509
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY		RDTE/Other Defense-Basic Research		1,674
UNIVERSITY OF WYOMING	Wyoming	NAVY		RDTE/Other Defense-Basic Research		413
VANDERBILT UNIVERSITY THE	Tennessee	NAVY		RDTE/Other Defense-Basic Research		93
VARIAN ASSOCIATES INC	California	NAVY		RDTE/Other Defense-Basic Research		417
VECTOR RESEARCH INC	Michigan	USAFA		RDTE/Other Defense-Basic Research		49
VEXCEL CORPORATION	Colorado	ARMY		RDTE/Other Defense-Basic Research		55
VIRGINIA COMMONWEALTH UNIV	Virginia	NAVY		RDTE/Other Defense-Basic Research		124
VIRGINIA PLTCHNIC INST/ST UNI	Virginia	NAVY USAF		RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		818
				COUNTRY TOTAL		522
						1,340
VISTA RESEARCH INC	California	NAVY		RDTE/Other Defense-Basic Research		200
VMS CONSULTING ENGINEERS	New York	ARMY		RDTE/Other Defense-Basic Research		76
	Oregon	ARMY		RDTE/Other Defense-Basic Research		384
				CONTRACTOR TOTAL		460
WAGNER DANIEL H ASSOCIATES	Penn	NAVY		RDTE/Other Defense-Basic Research		160
WALLACE T H INC	Virginia	NAVY		RDTE/Other Defense-Basic Research		58
WASHINGTON STATE UNIVERSITY	Washington	NAVY		RDTE/Other Defense-Basic Research		743
WASHINGTON UNIVERSITY	Missouri	NAVY		RDTE/Other Defense-Basic Research		259
WAYNE STATE UNIVERSITY	Michigan	NAVY		RDTE/Other Defense-Basic Research		236
WELDING ENGINEERS INC	Penn	NAVY		RDTE/Other Defense-Basic Research		50

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD91 (CONTINUED)						
	WEST VIRGINIA UNIVERSITY	W Virginia	NAVY	RDTE/Other Defense-Basic Research	\$	119
	WESTEC SERVICES INC	California	NAVY	RDTE/Other Defense-Basic Research		79
	WESTERN MICHIGAN UNIVERSITY	Michigan	NAVY	RDTE/Other Defense-Basic Research		96
	WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	12,223	
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Other Defense-Basic Research	2,028	
		NAVY	RDTE/Other Defense-Basic Research		50	
	COUNTRY TOTAL				2,078	
	Mass	ARMY	RDTE/Other Defense-Basic Research		110	
	Penn	NAVY	RDTE/Other Defense-Basic Research		152	
		USAF	RDTE/Other Defense-Basic Research		215	
	COUNTRY TOTAL				367	
	CONTRACTOR TOTAL				2,555	
	WINDROCK ASSOC	Tennessee	ARMY	RDTE/Other Defense-Basic Research	51	
	WOODS HOLE OCEANOGRAPHIC	Mass	NAVY	RDTE/Other Defense-Basic Research	42	
	WOODS HOLE OCNGRPHIC INSTITUTE	Mass	NAVY	RDTE/Other Defense-Basic Research	12,760	
	WRIGHT STATE UNIVERSITY	Ohio	NAVY	RDTE/Other Defense-Basic Research	74	
		USAF	RDTE/Other Defense-Basic Research		559	
	COUNTRY TOTAL				633	
	XEROX CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	100	
	XINOTECH RESEARCH INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research	50	
	XONTECH INC	California	NAVY	RDTE/Other Defense-Basic Research	80	
	YALE UNIVERSITY	Conn	NAVY	RDTE/Other Defense-Basic Research	2,393	
	YESHIVA UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	65	
	ZERNOW TECHNICAL SERVICES INC	California	NAVY	RDTE/Other Defense-Basic Research	50	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL	A A I CORPORATION	Maryland	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	522,711
		COUNTRY TOTAL			335
	A P A OPTICS INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	50
	A T & T TECHNOLOGIES INC	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	1,595
		N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	50
	CONTRACTOR TOTAL				1,645
	ACME DIVAC INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	93
	ACUREX CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	190
	ADAPTIVE OPTICS ASSOCIATES	Mass	USAF	RDTE/Other Defense-Exploratory Development	469
	ADAPTIVE SENSORS INC	California	USAF	RDTE/Other Defense-Exploratory Development	221
	ADAPTIVE TECHNOLOGY INC	New York	USAF	RDTE/Other Defense-Exploratory Development	110
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	910
	ADVANCED DECISION SYSTEMS	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,799 1,661
	COUNTRY TOTAL				3,460
	ADVANCED MARINE ENTERPRISES	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	216
	ADVANCED PROJECTS RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	60
	ADVANCED RES & APPLICATIONS	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	516 267
	COUNTRY TOTAL				783
	ADVANCED SCIENTIFIC CONCEPTS	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	156
	ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	450

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	ADVANCED TECHNOLOGY MTL'S DEL	Conn		ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 75 574
			COUNTRY TOTAL			649
ADVANCED TECHNOLOGY SYSTEMS	Virginia	NAVY	RDTE/Other Defense-Exploratory Development			275
AEROCON INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development			47
AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development			290
AEROJET	California	USAF	RDTE/Other Defense-Exploratory Development			1,109
AEROLIFT INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development			888
AEROVIROIMENT INC	California	USAF	RDTE/Other Defense-Exploratory Development			152
AGBABIAN ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development			61
ALGOSTAR INCORPORATED	Illinois	ARMY	RDTE/Other Defense-Exploratory Development			64
ALLIED SIGNAL AEROSPACE CO	Arizona	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development			179 1,918
		COUNTRY TOTAL				2,097
	California	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development			1,015 1,300
		COUNTRY TOTAL				1,315
ALLIED SIGNAL INC	Indiana	NAVY	RDTE/Other Defense-Exploratory Development			80
ALLOY SURFACES CO	Maryland	NAVY	RDTE/Other Defense-Exploratory Development			300
	Nevada	ARMY	RDTE/Other Defense-Exploratory Development			3,302
		CONTRACTOR TOTAL				7,094
	Maryland	ARMY	RDTE/Other Defense-Exploratory Development			2,310
	Delaware	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development			435 186
		COUNTRY TOTAL				621

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	ALPHA CORPORATION	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	\$	73
	ALPHATECH INC	Mass	USAF	RDTE/Other Defense-Exploratory Development		221
	AMERICAN ELECTRONICS INC	Mass	USAF	RDTE/Other Defense-Exploratory Development		242
	AMERICAN INST RSRC BHAV SCI	D.C.	ARMY	RDTE/Other Defense-Exploratory Development		55
	AMERICAN MAGNETICS INC	Tennessee	NAVY	RDTE/Other Defense-Exploratory Development		476
	AMERINEX ARTIFICIAL INTELLIGEN	Mass	ARMY	RDTE/Other Defense-Exploratory Development		50
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Other Defense-Exploratory Development		290
	AMPARO CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		244
	ANADAC INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		99
	ANALYTIC SCIENCES CORP THE	California	ARMY	RDTE/Other Defense-Exploratory Development		627
		Mass	ARMY	RDTE/Other Defense-Exploratory Development		200
			USAF	RDTE/Other Defense-Exploratory Development		1,625
	COUNTRY TOTAL					1,825
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	80	
	CONTRACTOR TOTAL					2,532
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		522
	ANALYTICAL SYSTEMS ENRG CORP	Maryland	NAVY	RDTE/Other Defense-Exploratory Development		42
		Mass	ARMY	RDTE/Other Defense-Exploratory Development		1,038
	CONTRACTOR TOTAL					1,080
	ANALYTICS INCORPORATED	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		79
		Penn	ARMY	RDTE/Other Defense-Exploratory Development		138
	CONTRACTOR TOTAL					217
	ANAMET LABORATORIES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		386
	ANDERSEN ARTHUR & CO	Illinois	USAF	RDTE/Other Defense-Exploratory Development		57

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	ANRO ENGINEERING CONSULTANTS	Florida	ARMY	RDTE/Other Defense-Exploratory Development	55
	ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other Defense-Exploratory Development	175
	APCOT CORPORATION	Penn	NAVY	RDTE/Other Defense-Exploratory Development	30
	APD CRYOGENICS INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	95
	APEX ENVIRONMENTAL INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	93
	APPLIED ELECTROMAGNETICS INC	Georgia	USAF	RDTE/Other Defense-Exploratory Development	119
	APPLIED RESEARCH ASSOC INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	1,691
		N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	71
	CONTRACTOR TOTAL				1,762
	APPLIED RESEARCH INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	2,788
	APPLIED SCIENCE ASSOCIATES	Penn	USAF	RDTE/Other Defense-Exploratory Development	165
	APPLIED SYSTEMS ENGINEERING	Texas	NAVY	RDTE/Other Defense-Exploratory Development	36
	APPLIED THEORY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	419
	APTEK INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	914
	ARCO POWER TECHNOLOGY	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	152
	ARES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	ARIZONA STATE UNIVERSITY	Arizona	USAF	RDTE/Other Defense-Exploratory Development	50
	ARRAL INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	1,707
	ASTRON RESEARCH & ENGINEERING	California	ARMY	RDTE/Other Defense-Exploratory Development	28
			USAF	RDTE/Other Defense-Exploratory Development	70
	COUNTRY TOTAL				98
	ASTRONAUTICS CORP AMERICA	Wisconsin	ARMY	RDTE/Other Defense-Exploratory Development	269
	ATHENA ENGINEERING CO	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	270

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION - - - - -	
AD92 (CONTINUED)					
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	\$ 56
	ATLANTIC RESEARCH CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development	399
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	340
			NAVY	RDTE/Other Defense-Exploratory Development	134
			USAF	RDTE/Other Defense-Exploratory Development	1,236
		COUNTRY TOTAL			1,710
					2,109
	ATM CORP	Conn	ARMY	RDTE/Other Defense-Exploratory Development	73
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,279
	AUSTIN RESEARCH ASSOCIATES	Texas	ARMY	RDTE/Other Defense-Exploratory Development	389
	AUTO INFO & MANAGE SYS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	47
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	688
	AUTOMETRIC INC	New York	USAF	RDTE/Other Defense-Exploratory Development	55
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	49
		COUNTRY TOTAL			104
	AVCO CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	1,747
			USAF	RDTE/Other Defense-Exploratory Development	253
		COUNTRY TOTAL			2,000
	AVOGADRO ENERGY SYSTEMS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	586
	BAAS CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	889
	BALL CORPORATION	Colorado	USAF	RDTE/Other Defense-Exploratory Development	250
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	5,325
			USAF	RDTE/Other Defense-Exploratory Development	504
		COUNTRY TOTAL			5,829

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	BBN COMMUNICATIONS CORP	Mass	USAF	RDTE/Other Defense-Exploratory Development	\$ 356	
	BDM CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	1,000	
	BDM INTERNATIONAL INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	200	
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	2,448	
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	6,484	
			USAF	RDTE/Other Defense-Exploratory Development	53	
	COUNTRY TOTAL				6,537	
	CONTRACTOR TOTAL					
	BDM MANAGEMENT SERVICES CO	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	99	
	BECHTEL NATIONAL INC	California	ARMY	RDTE/Other Defense-Exploratory Development	5,400	
	BEECHER RESEARCH CO	Ohio	USAF	RDTE/Other Defense-Exploratory Development	75	
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	140	
	BENMOL CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	175	
	BERKELEY RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	822	
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,572	
	COUNTRY TOTAL				2,394	
	CONTRACTOR TOTAL					
	BETHESDA TECHNICAL SUPPORT CO	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	56	
	BIOMAGNETIC TECHNOLOGIES INC	California	NAVY	RDTE/Other Defense-Exploratory Development	479	
	BLUESTONE PRO FARMS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	50	
	BOEING COMPANY THE	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	6,238	
		Kansas	USAF	RDTE/Other Defense-Exploratory Development	228	
		Washington	ARMY	RDTE/Other Defense-Exploratory Development	633	
			USAF	RDTE/Other Defense-Exploratory Development	3,223	
	COUNTRY TOTAL				3,856	
	CONTRACTOR TOTAL					
					10,322	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	BOLT BERANEK & NEWMAN INC	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 496 725	
		COUNTRY TOTAL			1,221	
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	36	
	CONTRACTOR TOTAL	Maryland	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,257	
	BOOZ ALLEN & HAMILTON INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	3,432 150	
		COUNTRY TOTAL			3,582	
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	262	
	CONTRACTOR TOTAL	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	493	
	BRIMROSE CORP OF AMERICA	Wisconsin	ARMY	RDTE/Other Defense-Exploratory Development	4,337	
	BROWN R G ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	360	
	BRUNSWICK CORPORATION	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	49	
	BURKE TECHNOLOGIES INC	Arizona	NAVY	RDTE/Other Defense-Exploratory Development	700	
	C A E INDUSTRIES LTD	Virginia	USAF	RDTE/Other Defense-Exploratory Development	27	
	C B & F ASSOCIATES	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	2,618	
	C M C ELECTRONICS INC	D.C.	USAF	RDTE/Other Defense-Exploratory Development	50	
	C S R INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	62	
	CACI INC	Maryland	USAF	RDTE/Other Defense-Exploratory Development	173	
	CAELUM RESEARCH CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	685	
	CALIFORNIA RES & TECHNOLOGY	California	USAF	RDTE/Other Defense-Exploratory Development	50	
	CALL RECALL	Alabama	USAF	RDTE/Other Defense-Exploratory Development	2,734	
	CALSPAN CORPORATION	Arizona	USAF	RDTE/Other Defense-Exploratory Development	117	
					35	
					46	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
		California	USAF	RDTE/Other Defense-Exploratory Development	419
		Colorado	USAF	RDTE/Other Defense-Exploratory Development	99
		Conn	USAF	RDTE/Other Defense-Exploratory Development	100
		Florida	USAF	RDTE/Other Defense-Exploratory Development	75
		Mass	USAF	RDTE/Other Defense-Exploratory Development	85
		New York	ARMY	RDTE/Other Defense-Exploratory Development	353
			USAF	RDTE/Other Defense-Exploratory Development	4,370
		COUNTRY TOTAL			4,723
		Penn	ARMY	RDTE/Other Defense-Exploratory Development	40
			USAF	RDTE/Other Defense-Exploratory Development	75
		COUNTRY TOTAL			115
		CONTRACTOR TOTAL			5,697
	CAMPBELL ENGINEERING INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	139
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Other Defense-Exploratory Development	309
		COUNTRY TOTAL			272
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Exploratory Development	581
			USAF	RDTE/Other Defense-Exploratory Development	1,123
		COUNTRY TOTAL			6,455
	CARPENTER RESEARCH CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	7,578
	CARTWRIGHT ELECTRONICS INC	California	USAF	RDTE/Other Defense-Exploratory Development	250
	CAS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	953
	CASCADE MICROTECH INC	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	1,247
	CASE WESTERN RESERVE UNIV	Ohio	USAF	RDTE/Other Defense-Exploratory Development	50
	CENTURY COMPUTING INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	585
					50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	CERAMICS PROCESS SYSTEMS CORP	Mass		NAVY RDTE/Other Defense-Exploratory Development	\$ 1,260	
	CERAMPHYSICS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	200	
	CFD RESEARCH CORP	Alabama	NAVY	RDTE/Other Defense-Exploratory Development	67	
	CHAMBERLAIN MANUFACTURING CORP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	360	
	CHAN COMPUTER	New York	NAVY	RDTE/Other Defense-Exploratory Development	557	
	CHARLES RIVER ANALYTICS INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	194	
	CHARLES SYSTEMS CORP	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	50	
	CHIRP CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	482	
	CHRONOS RESEARCH LABORATORIES	California	ARMY	RDTE/Other Defense-Exploratory Development	50	
	CICCONE V J & ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	56	
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Other Defense-Exploratory Development	92	
	COBRO CORPORATION	Missouri	ARMY	RDTE/Other Defense-Exploratory Development	172	
	COGNITECH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	47	
	COGNITIVE SYSTEMS INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	50	
	COLLINS INTERNATIONAL SVC CO	Texas	USAF	RDTE/Other Defense-Exploratory Development	50	
	COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Other Defense-Exploratory Development	26	
	COMAR INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	57	
	COMPOUND ENGINE CONSULTANTS IN	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	55	
	COMPREHENSIVE TECHNOLOGIES INTL	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	2,109	
	COMPUTER CORPORATION AMERICA	Mass	USAF	RDTE/Other Defense-Exploratory Development	410	
	COMPUTER SCIENCES CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	3,975	
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	226	
	CONTRACTOR TOTAL					4,201

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-----	\$	
AD92 (CONTINUED)						
	COMPUTER SYSTEMS & RESOURCES	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	\$	224
	CONCEPT ENGINEERING	Washington	ARMY	RDTE/Other Defense-Exploratory Development		429
	CONCURRENT COMPUTER CORP	New Jersey	USAF	RDTE/Other Defense-Exploratory Development		350
	CONTEL FEDERAL SYSTEMS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development		201
	CONTROL DATA CANADA LIMITED	Penn	NAVY	RDTE/Other Defense-Exploratory Development		61
	CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Other Defense-Exploratory Development		127
	CORBETT TECHNOLOGY COMPANY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		727
	CORNELL UNIVERSITY	New York	ARMY	RDTE/Other Defense-Exploratory Development		193
	CORP FOR STUDIES & ANALYSIS	California	NAVY	RDTE/Other Defense-Exploratory Development		47
	CORPORATE INTERIORS INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development		676
	CORPORATE SYSTEMS GROUP	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		53
	CORVUS SYSTEMS INCORPORATED	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		83
	COVALENT ASSOCIATES INC	Mass	NAVY	RDTE/Other Defense-Exploratory Development		258
	CRAY RESEARCH INC	Minnesota	NAVY	RDTE/Other Defense-Exploratory Development		30-
	CREARE RESEARCH & DEVELOPMENT	California	ARMY	RDTE/Other Defense-Exploratory Development		285
		N.H.	ARMY	RDTE/Other Defense-Exploratory Development		200
	CONTRACTOR TOTAL					485
	CROTON INSTITUTE LTD	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		304
	CRYO-POWER ASSOCIATES	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		56
	C./STALLUME	California	ARMY	RDTE/Other Defense-Exploratory Development		65
	CTA INCORPORATED	Ohio	USAF	RDTE/Other Defense-Exploratory Development		294
	DAEDALUS RESEARCH INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		52
	DAMASKOS INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development		99
	DATAMETRICS RESEARCH INC	Mass	USAF	RDTE/Other Defense-Exploratory Development		81

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION
AD92 (CONTINUED)				
DAUBIN SYSTEMS CORPORATION	Florida	NAVY	RDTE/Other Defense-Exploratory Development	\$ 64
DAYCHEM LABORATORIES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	170
DBA SYSTEMS INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development	120
DEACON RESEARCH	California	ARMY	RDTE/Other Defense-Exploratory Development	50
DECISION SCIENCE APPLICATIONS	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,227 550
COUNTRY TOTAL				
DEFENSE GROUP INC THE	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	146
DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	100
DEFENSE SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	656
DESCRIPT	Texas	ARMY	RDTE/Other Defense-Exploratory Development	41
DEVELCO INCORPORATED	California	NAVY	RDTE/Other Defense-Exploratory Development	45
DIEHL GMBH & CO	GERMANY, F	ARMY	RDTE/Other Defense-Exploratory Development	486
DIGITAL BASICS INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	67
DIGITAL EQUIPMENT CORPORATION	N.H.	ARMY	RDTE/Other Defense-Exploratory Development	175-
DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	225
DOVE ELECTRONICS INC	New York	USAF	RDTE/Other Defense-Exploratory Development	39
DOW CHEMICAL COMPANY THE	Michigan	USAF	RDTE/Other Defense-Exploratory Development	991
DRAPER CHARLES STARK LAB INC	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	47 832
COUNTRY TOTAL				
DU PONT E I DE NMOURS COMPANY	Delaware	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	2,743 180
COUNTRY TOTAL				
				2,923

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	DYNA EAST CORPORATION	Penn	ARMY	RDTE/Other Defense-Exploratory Development	\$ 125	
	DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	318	
	DYNACORP APPLIED TECHNOLOGY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	346	
	DYNETICS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,478	
	E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	342	
		Tennessee	ARMY	RDTE/Other Defense-Exploratory Development	165	
	CONTRACTOR TOTAL				507	
	E G & G WASHINGTON ALALYTL SVC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	200	
	E I C LABORATORY INC	Mass	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	464 284	
	COUNTRY TOTAL				748	
	E SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	50	
	EAGLE PITCHER INDUSTRIES INC	California	USAF	RDTE/Other Defense-Exploratory Development	921	
		Colorado	USAF	RDTE/Other Defense-Exploratory Development	497	
		Missouri	USAF	RDTE/Other Defense-Exploratory Development	234	
	CONTRACTOR TOTAL				1,652	
	EAGLE SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	648	
	EAGLE TECHNOLOGY INC	Florida	NAVY	RDTE/Other Defense-Exploratory Development	226	
	EARTH SATELLITE CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	68	
	EARTH TECHNOLOGY CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	98	
	EASTMAN KODAK COMPANY	New York	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,583 45 76	
	COUNTRY TOTAL	New York	USAF	RDTE/Other Defense-Exploratory Development	1,704	
	EATON CORPORATION				50	

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	EBASCO SERVICES INCORPORATED	New York	ARMY	RDTE/Other Defense-Exploratory Development	\$ 5,300	
	EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other Defense-Exploratory Development	74	
	ELECTRO DESIGN MANUFACTURING	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	401	
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	49	
	ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	64	
	ELECTRONIC ASSOCIATES INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,038	
	CONTRACTOR TOTAL	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	1,578	
	ELECTRONIC DECISIONS INC	Illinois	ARMY USAF	RDTE/Other Defense-Exploratory Development	2,616	
		COUNTRY TOTAL				
	EMERSON ELECTRIC CO	Missouri	ARMY	RDTE/Other Defense-Exploratory Development	46	
	ENGINEERING RESEARCH ASSOC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	3,916	
	ENGINEERING METHODS APPLICATIONS	Florida	ARMY	RDTE/Other Defense-Exploratory Development	93	
	ENVIRONMENTAL RESEARCH	Michigan	ARMY USAF	RDTE/Other Defense-Exploratory Development	100	
		COUNTRY TOTAL				
	EPITAXX INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	255	
	EPSILON LAMBDA ELECTRONICS	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	191	
	ERNST MACHINSTITUT	GERMANY, F	ARMY	RDTE/Other Defense-Exploratory Development	1,139	
	ESSEX CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	186	
	ETAK INCORPORATED	California	ARMY	RDTE/Other Defense-Exploratory Development	144	
	EWA INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	109	
	EXCEL TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	50	
		COUNTRY TOTAL				

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$	
AD92 (CONTINUED)						
	EXFLUOR RESEARCH CORPORATION	Texas	NAVY	RDTE/Other Defense-Exploratory Development	\$ 396	
	FALCON ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,675	
	FAR WEST SENSOR CORP	California	USAF	RDTE/Other Defense-Exploratory Development	50	
	FLUROCHEM INC	California	NAVY	RDTE/Other Defense-Exploratory Development	454	
	FLUID PHYSICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	168	
	FLUIDYNE ENGINEERING CORP	Minnesota	USAF	RDTE/Other Defense-Exploratory Development	500	
	FMC CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	51	
	MINNESOTA	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	3,930	
	CONTRACTOR TOTAL	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development	3,981	
	FORD AEROSPACE COMMCTIONS CORP	Colorado	COUNTRY TOTAL	RDTE/Other Defense-Exploratory Development	996	
		Colorado	USAF	RDTE/Other Defense-Exploratory Development	50	
	CONTRACTOR TOTAL	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development	1,046	
	FOSTER MILLER INC	Mass	COUNTRY TOTAL	RDTE/Other Defense-Exploratory Development	130	
		California	USAF	RDTE/Other Defense-Exploratory Development	1,176	
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Other Defense-Exploratory Development	924	
	FRONTIER TECHNOLOGY INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	297	
	G & F COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development	1,221	
	CONTRACTOR TOTAL	Colorado	USAF	RDTE/Other Defense-Exploratory Development	299	
	FROST ENGINEERING DEVELOPMENT	Virginia	USAF	RDTE/Other Defense-Exploratory Development	225	
	FUENTEZ SYSTEMS CONCEPTS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50	
	G & F COMPANY				275	
					50	
					50	
					10,578	

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

		(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	G M HUGHES ELECTRONICS CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	\$ 46
	G T E LABORATORIES INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	62
	GARJAK RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	416
	GENCORP INC	California	ARMY	RDTE/Other Defense-Exploratory Development	3,668
		USAF	RDTE/Other Defense-Exploratory Development	273	
		COUNTRY TOTAL			9,941
	GENERAL ATOMICS	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	270 656 262
		COUNTRY TOTAL			1,188
	GENERAL DYNAMICS CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	9,326 276
		COUNTRY TOTAL			9,602
	Conn	ARMY		RDTE/Other Defense-Exploratory Development	416
	Michigan	ARMY		RDTE/Other Defense-Exploratory Development	6,063
	Texas	USAF		RDTE/Other Defense-Exploratory Development	485
		COUNTRY TOTAL			16,566
	GENERAL ELECTRIC CO	Arizona	USAF	RDTE/Other Defense-Exploratory Development	4,556
		Mass	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	225 204 80
		COUNTRY TOTAL			509
	New Jersey	ARMY NAVY USAF		RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	94 385 286
		COUNTRY TOTAL			765
	New York	ARMY		RDTE/Other Defense-Exploratory Development	433

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME _____

AND 2 (CONTINUED)

NAVY USAF		RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development
COUNTRY TOTAL		
Ohio	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development
COUNTRY TOTAL		
Penn	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development
COUNTRY TOTAL		
Vermont	ARMY	RDTE/Other Defense-Exploratory Development
CONTRACTOR TOTAL		
GENERAL INDICATOR CORPORATION	Virginia	ARMY
GENERAL MGT ASSOCIATES	Maryland	ARMY
GENERAL MOTORS CORPORATION	Indiana	NAVY USAF
COUNTRY TOTAL		
California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development
COUNTRY TOTAL		
Virginia	ARMY	RDTE/Other Defense-Exploratory Development
CONTRACTOR TOTAL		
GEO CENTERS INC	D.C. Maryland Mass	NAVY ARMY ARMY
CONTRACTOR TOTAL		

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	50
AD92 (CONTINUED)						
	GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	\$	6,218
	GEORGIA TECH RESEARCH INST	Georgia	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		165 5,130
		COUNTRY TOTAL				11,513
		Texas	USAF	RDTE/Other Defense-Exploratory Development	74	
		CONTRACTOR TOTAL				11,587
	GEOSPECTRA CORPORATION	Michigan	USAF	RDTE/Other Defense-Exploratory Development		50
	GIORDANO ASSOCIATES INC	New Jersey	USAF	RDTE/Other Defense-Exploratory Development		118
	GLEASON RESEARCH ASSOC INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		47
	GLOBAL ASSOCIATES LTD	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		94
	GLOBAL INFO SYSTEMS TECHNOLOGY	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		200
	GOODRICH B F COMPANY THE	California	USAF	RDTE/Other Defense-Exploratory Development		400
	GRAHAM RESEARCH	Penn	ARMY	RDTE/Other Defense-Exploratory Development		49
	GRUMMAN AEROSPACE CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development		196
		New York	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		593 925
		COUNTRY TOTAL				1,518
		CONTRACTOR TOTAL				1,714
	GRUMMAN DATA SYSTEMS CORP	New York	USAF	RDTE/Other Defense-Exploratory Development		300
	GTE GOVERNMENT SYSTEMS CORP	California	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		500 50
		COUNTRY TOTAL				550
	H & N INSTRUMENTS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development		236
	HARRIS CORPORATION	Florida	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		500 3,513

DEPARTMENT OF DEFENSE

BPTME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

ESTATE PLANNING FOR THE RETIREMENT YEARS 100

COMMUNES IN THOUSANDS

AD92 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	4,013
AD92 (CONTINUED)						
		COUNTRY TOTAL				
		New York	USAF	RDTE/Other Defense-Exploratory Development		26
		Mass	ARMY	RDTE/Other Defense-Exploratory Development		4,039
HARVARD UNIVERSITY		New York	USAF	RDTE/Other Defense-Exploratory Development		250
HAZELTINE CORPORATION		New Jersey	USAF	RDTE/Other Defense-Exploratory Development		195
HCC SCIENCE & TECHNOLOGY CO		California	ARMY	RDTE/Other Defense-Exploratory Development		60
HECHT NIELSEN NEUROCOMPUTER		Utah	ARMY	RDTE/Other Defense-Exploratory Development		50
HERCULES INCORPORATED		Alabama	ARMY	RDTE/Other Defense-Exploratory Development		398
HILTON SYSTEMS INC		Mass	NAVY	RDTE/Other Defense-Exploratory Development		4,965
HITTITE MICROWAVE CORPORATION		Virginia	USAF	RDTE/Other Defense-Exploratory Development		49
HONEYWELL FEDERAL SYSTEMS		Mass	NAVY	RDTE/Other Defense-Exploratory Development		222
HONEYWELL INC		Minnesota	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development		385
		Washington	NAVY	RDTE/Other Defense-Exploratory Development		8,010
				RDTE/Other Defense-Exploratory Development		762
				RDTE/Other Defense-Exploratory Development		3,797
		COUNTRY TOTAL				12,569
						31
						12,985
						1,536
CONTRACTOR TOTAL						168
HORIZONS TECHNOLOGY INC		California	ARMY	RDTE/Other Defense-Exploratory Development		106
HRB SINGER INC		Maryland	NAVY	RDTE/Other Defense-Exploratory Development		274
		Penn	USAF	RDTE/Other Defense-Exploratory Development		6,377
						2,226
		COUNTRY TOTAL				
HUGHES AIRCRAFT COMPANY		California	ARMY NAVY	RDTE/Other Defense-Exploratory Development		

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT -----R&D DESCRIPTION-----

AD92 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-----R&D DESCRIPTION-----	USAF	RDTE/Other Defense-Exploratory Development	\$	3,101
COUNTRY TOTAL					New Mexico	USAF	RDTE/Other Defense-Exploratory Development	11,704
CONTRACTOR TOTAL								310
	HUGHES ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development				329
	HUMAN FACTORS APPLICATIONS	Penn	NAVY	RDTE/Other Defense-Exploratory Development				377
	HUTCHINSON F CANCER RESEARCH	Washington	USAF	RDTE/Other Defense-Exploratory Development				101
	HY TECH RESEARCH CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development				752
	HYPRES INC	New York	NAVY	RDTE/Other Defense-Exploratory Development				1,455
	I A P RESEARCH INC	Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development				355
			COUNTRY TOTAL					30
								385
	I I T RESEARCH INSTITUTE	Maryland	USAF	RDTE/Other Defense-Exploratory Development				100
	I R T CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development				80^
	I S I GROUP INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development				220
	IBIS TECHNOLOGY CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development				96
	ICF INCORPORATED	Louisiana	USAF	RDTE/Other Defense-Exploratory Development				56
	IGR ENTERPRISES INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development				50
	IM TECH CO	Tennessee	ARMY	RDTE/Other Defense-Exploratory Development				50
	IMAGING SCIENCE TECHNOLOGIES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development				100
	INCREMENTAL SYSTEMS CORP	Penn	ARMY	RDTE/Other Defense-Exploratory Development				500
	INDIANA UNIVERSITY FOUNDATION	Indiana	USAF	RDTE/Other Defense-Exploratory Development				67
	INFORMATION SYSTEMS LABS	Virginia	ARMY	RDTE/Other Defense-Exploratory Development				55
	INSTITUTE FOREIGN PLCY ANLYS	Mass	ARMY	RDTE/Other Defense-Exploratory Development				550

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	119
	INTEL CORPORATION	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	2,500
	INTELLIGENT SYSTEMS TECHNOLOGY	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	341
	INTELLICORP	California	USAF	RDTE/Other Defense-Exploratory Development	622
	INTERGRAPH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	373
	TERMETRICS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	191
	INTERNATIONAL BUS MCHS CORP	New York	USAF	RDTE/Other Defense-Exploratory Development	200
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	USAF	RDTE/Other Defense-Exploratory Development	260
	INTERSONICS INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	71
	IRVINE SENSORS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	58
	ITT CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	194
	JAMIESON SCIENCE & ENGINEERING	Indiana	USAF	RDTE/Other Defense-Exploratory Development	239
	JAYCOR	New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	414
			USAF	RDTE/Other Defense-Exploratory Development	718
	COUNTRY TOTAL				1,132
	CONTRACTOR TOTAL				1,565
	ITT GILFILLAN	California	USAF	RDTE/Other Defense-Exploratory Development	338
	J K RESEARCH	Montana	ARMY	RDTE/Other Defense-Exploratory Development	156
	JAMIESON SCIENCE & ENGINEERING	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	47
		California	ARMY	RDTE/Other Defense-Exploratory Development	15,054
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	72
		D.C.	NAVY	RDTE/Other Defense-Exploratory Development	140
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	228

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

		(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
				\$	1,120
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	974
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	17,588
CONTRACTOR TOTAL					
JES INC		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	70
JOHNS HOPKINS UNIVERSITY		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	81
JOHNSON CONTROLS INC		Nevada	ARMY	RDTE/Other Defense-Exploratory Development	360
JSM ASSOCIATES		California	ARMY	RDTE/Other Defense-Exploratory Development	50
KAISER AEROSPACE & ELEC CORP		California	USAF	RDTE/Other Defense-Exploratory Development	196
KAMAN SCIENCES CORPORATION		California	ARMY	RDTE/Other Defense-Exploratory Development	3,686
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	6,492
			USAF	RDTE/Other Defense-Exploratory Development	68
COUNTRY TOTAL					
Mass		Mass	ARMY	RDTE/Other Defense-Exploratory Development	230
		New York	USAF	RDTE/Other Defense-Exploratory Development	86
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,124
CONTRACTOR TOTAL					
KAPOS ASSOCIATES INC		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	75
KARAGOZIAN & CASE		California	ARMY	RDTE/Other Defense-Exploratory Development	592
KBM ENTERPRISES INC		Alabama	ARMY	RDTE/Other Defense-Exploratory Development	281
KESTREL INSTITUTE		California	USAF	RDTE/Other Defense-Exploratory Development	290
KETRON INC		Penn	NAVY	RDTE/Other Defense-Exploratory Development	34
KLEIN ASSOCIATES INC		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	74
KNOLL INTERNATIONAL HOLDINGS		Indiana	USAF	RDTE/Other Defense-Exploratory Development	120

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	KNOWLEDGE SYSTEMS CONCEPTS	New York	USAF	RDTE/Other Defense-Exploratory Development	\$ 265	
	KOHLBERG & ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	130	
	KOPIN CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	195	
	KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Exploratory Development	2,117	
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development	350	
	LACHEL PIEPENBURG & ASSOC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	350	
	LASER POWER CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	50	
	LASERGENICS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	48	
	LEHIGH UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Exploratory Development	100	
	LEWIS BROTHERS STAGES INC	Utah	ARMY	RDTE/Other Defense-Exploratory Development	1,162	
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	455	
	LITTON INDUSTRIES INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	1,901	
	LITTON SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	1,181	
		New York	USAF	RDTE/Other Defense-Exploratory Development	143	
	CONTRACTOR TOTAL	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,324	
	LOCKHEED CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	141 1,212	
	COUNTRY TOTAL				1,353	
	Georgia	USAF		RDTE/Other Defense-Exploratory Development	4,266	
	N.H.	USAF		RDTE/Other Defense-Exploratory Development	437	
	New Jersey	ARMY		RDTE/Other Defense-Exploratory Development	139	
	CONTRACTOR TOTAL	California	ARMY	RDTE/Other Defense-Exploratory Development	6,195	
	LOCKHEED MISSILES & SPACE CO				17,557	

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION - - - - -	\$	
AD92 (CONTINUED)						
	LOUISIANA STATE UNIVERSITY	Louisiana	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 47	35
		COUNTRY TOTAL				82
	LOWE DONALD ASSOCIATES INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	99	
	LSI INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	34	
	LTV AEROSPACE & DEF CO	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	50 545	
		COUNTRY TOTAL				595
	M D B SYSTEMS INC	California	NAVY	RDTE/Other Defense-Exploratory Development	28	
	M R J INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	360	
	M T L SYSTEMS INC	Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	49 259	
		COUNTRY TOTAL				308
	M/A COM LINKABIT INC	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	500 1,664	
		COUNTRY TOTAL				2,164
	M/A-COM INC	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	44 105	
		COUNTRY TOTAL				149
	M/A-COM PHI INC	California	USAF	RDTE/Other Defense-Exploratory Development	184	
	MAC AULAY BROWN INC	Florida	USAF	RDTE/Other Defense-Exploratory Development	700	
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	884	
		CONTRACTOR TOTAL				
	MAGNAVOX GOVT & INDSTRL ELCTR	Indiana	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,467 205	
		COUNTRY TOTAL				1,672

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	50
AD92 (CONTINUED)						
	MAGNESYS	California	ARMY	RDTE/Other Defense-Exploratory Development		
	MANTECH INTERNATIONAL CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	3,125	
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	65	
	CONTRACTOR TOTAL				3,190	
	MARINE IMAGING SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	721	
	MARK RESOURCES INC	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	101 372	
		COUNTRY TOTAL			473	
	MARKO MATERIALS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	100	
	MARQUARDT COMPANY THE	California	USAF	RDTE/Other Defense-Exploratory Development	230	
	MARTIN MARIETTA CORPORATION	Colorado	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	2,227 47	
		COUNTRY TOTAL			2,274	
	MARYLAND	Florida	ARMY	RDTE/Other Defense-Exploratory Development	4,195	
		Maryland	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	2,440 97 281	
		COUNTRY TOTAL			2,818	
	CONTRACTOR TOTAL				9,287	
	MASCON ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	180	
	MASSACHSETTS INST OF TCHNOLOGY	Mass	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	2,411 795 859	
		COUNTRY TOTAL			4,065	
	MASSACHUSETTS UNIVERSITY OF	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	679 453	
		COUNTRY TOTAL			1,132	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	MATERIALS & ELECTROCHEMICAL MATERIALS TECHNOLOGIES CORP	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	\$	50
	MAXIM TECHNOLOGIES INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development		55
		California	ARMY	RDTE/Other Defense-Exploratory Development		397
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development		145
	CONTRACTOR TOTAL					542
	MAXWELL LABORATORIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		30,051
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		224
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development		195
	CONTRACTOR TOTAL					30,470
	MAYO FOUNDATION	Minnesota	USAF	RDTE/Other Defense-Exploratory Development		300
	MC CAY TOOL & ENGINEERING CO	Missouri	ARMY	RDTE/Other Defense-Exploratory Development		87
	MC DEAN	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		29
	MC DONNELL DOUGLAS CORPORATION	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		1,914 69 299
	COUNTRY TOTAL					2,282
	MISSOURI FOUNDATION	Missouri	USAF	RDTE/Other Defense-Exploratory Development		6,554
	TEXAS FOUNDATION	Texas	USAF	RDTE/Other Defense-Exploratory Development		40
	CONTRACTOR TOTAL					8,876
	MC LEAN RESEARCH CENTER INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		148
	MCS CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		50
	MECHANICAL TECHNOLOGY INC	New York	USAF	RDTE/Other Defense-Exploratory Development		483
	MEDICAL SYSTEMS SUPPORT INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		49
	MEI ASSOCIATES INCORPORATED	Mass	USAF	RDTE/Other Defense-Exploratory Development		259
	MEI RESEARCH	California	ARMY	RDTE/Other Defense-Exploratory Development		74

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	MERIT TECHNOLOGY INC	Texas		NAVY RDTE/Other Defense-Exploratory Development	\$ 132	
	MERRIFIELD LABORATORIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	100	
	MERRITT CASES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	33	
	MESA INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	303	
	METATECH CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	1,250	
	METCUT RESEARCH ASSOCIATES	Ohio	USAF	RDTE/Other Defense-Exploratory Development	701	
	MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Other Defense-Exploratory Development	1,225	
	MIDWEST RESEARCH INSTITUTE	Missouri	USAF	RDTE/Other Defense-Exploratory Development	126	
	MIDWEST SYSTEMS RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	353	
	MILLITECH CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	250	
	MINE SAFETY APPLS COMPANY	Penn	ARMY	RDTE/Other Defense-Exploratory Development	148	
	MISSION RESEARCH CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	10,913 377	
	COUNTRY TOTAL					11,290
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	212	
		New Mexico	USAF	RDTE/Other Defense-Exploratory Development	65	
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	246	
	CONTRACTOR TOTAL					11,813
	MISSOURI UNIVERSITY OF	Missouri	NAVY	RDTE/Other Defense-Exploratory Development	136	
	MODELL DEVELOPMENT CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	56	
	MOLDED FIBER GLASS COMPANIES	Penn	ARMY	RDTE/Other Defense-Exploratory Development	546	
	MOLZEN CORBIN & ASSOCIATES PA	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	873	
	MOOG INC	New York	USAF	RDTE/Other Defense-Exploratory Development	100	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	MOTOROLA INC	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	\$ 881	
	MSNW INC	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	55 120	
		COUNTRY TOTAL			175	
	MULTIMAX INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	50	
	N K F ENGINEERING INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	400	
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	1,094	
	NATIONAL CNCL ON RADTN PRTCTN	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	50	
	NATIONAL SECURITY RESEARCH	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,509	
	NETWORK SOLUTIONS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,574	
	NEW YORK UNIVERSITY	New York	USAF	RDTE/Other Defense-Exploratory Development	50	
	NEWPORT NEWS SHPBLDNG DRYDOCK	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	203	
	NEXT	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	61	
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	2,799 97	
		COUNTRY TOTAL			2,896	
	NIELSEN ENGINEERING & RES	California	ARMY	RDTE/Other Defense-Exploratory Development	265	
	NORDEN SYSTEMS INC	Conn	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	317 100	
		COUNTRY TOTAL			417	
	NORTH CAROLINA A & T UNIV	N Carolina	USAF	RDTE/Other Defense-Exploratory Development	192	
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	192 350	
		COUNTRY TOTAL			542	
	NORTH STAR RESEARCH INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	65	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	NORTHROP CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 1,180	1,676
		COUNTRY TOTAL			2,856	
		Illinois	USAF	RDTE/Other Defense-Exploratory Development	389	
	CONTRACTOR TOTAL				3,245	
	NORTHWEST RESEARCH ASSOCIATES	Washington	ARMY	RDTE/Other Defense-Exploratory Development	538	
		Illinois	USAF	RDTE/Other Defense-Exploratory Development	47	
	NORTHWESTERN UNIVERSITY	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	58	
	NUMERICAL TECHNOLOGY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	69	
	OCEAN DATA SYSTEMS INC	New York	USAF	RDTE/Other Defense-Exploratory Development	805	
	ODYSSEY RESEARCH ASSOCIATES	Ohio	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	492 40 410	
	OHIO STATE UNIVERSITY	COUNTRY TOTAL			942	
	OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Defense-Exploratory Development	517	
	OPTICAL COATING LABORATORY	California	NAVY	RDTE/Other Defense-Exploratory Development	128	
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	54	
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	250	
	CONTRACTOR TOTAL				304	
	OPTRON SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	100	
	ORBITAL SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	6,000	
	ORD INC	Mass	ARMY	RDT , Other Defense-Exploratory Development	244	
	OREGON GRAD CNTR STUCY RESEARCH	Oregon	NAVY	RDTE/Other Defense-Exploratory Development	97	
	ORTEL CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development	263	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
ADD92 (CONTINUED)					
P C O INC	California	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 110 122	
	COUNTRY TOTAL			232	
P D A ENGINEERING	California	ARMY	RDTE/Other Defense-Exploratory Development	931	
P D I TECHNOLOGY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	101	
PACER SYSTEMS INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	2,045	
PACIFIC SIERRA RESEARCH CORP	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	2,049 1,065	
	COUNTRY TOTAL			3,114	
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,112	
	CONTRACTOR TOTAL			4,226	
PALISADES INST FOR RES SVCS	New York	USAF	RDTE/Other Defense-Exploratory Development	1,290	
PAR TECHNOLOGY CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	67	
	Conn	USAF	RDTE/Other Defense-Exploratory Development	147	
	New York	USAF	RDTE/Other Defense-Exploratory Development	2,550	
	CONTRACTOR TOTAL			2,764	
PATHOLOGY ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	54	
PERCEPTRONICS INC	Michigan	USAF	RDTE/Other Defense-Exploratory Development	180	
PERKIN ELMER CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	100	
PHOTO METRIC INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	90	
PHYSICAL OPTICS CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	779 140	
	COUNTRY TOTAL			919	
PHYSICAL RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	5,408	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$ 378	
	PHYSICON INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	424	
	PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development	13,987	
	PIERCE JOHN B FOUNDATION LAB	Conn	USAF	RDTE/Other Defense-Exploratory Development	109	
	PINSON ASSOCIATES INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development	240	
	PLANNING RESEARCH CORPORATION	Nebraska	USAF	RDTE/Other Defense-Exploratory Development	180	
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	287	
	CONTRACTOR TOTAL				467	
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	1,204	
	PLASMATRON COATINGS & SYSTEMS	Penn	ARMY	RDTE/Other Defense-Exploratory Development	50	
	PLESSEY UK LIMITED	UNITED KING	USAF	RDTE/Other Defense-Exploratory Development	56	
	POLYTECHNIC UNIV OF NEW YORK	New York	ARMY	RDTE/Other Defense-Exploratory Development	700	
	POLYTRONIX INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	150	
	POTOMAC PHOTONICS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	200	
	POTOMAC SYNEGETICS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	49	
	PRAXIS INTERNATIONAL INC	Miss	ARMY	RDTE/Other Defense-Exploratory Development	49	
	PRINCETON UNIVERSITY	New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	136	
	PRISMID OPTICAL CO	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	46	
	PROCESSING RESEARCH INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	165	
	PROGRAMMED COMPOSITES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	415	
	PROPELLION SCIENCE TECHNOLOGY	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	419	
	PROSPECTIVE COMPUTER ANALYSTS	New York	ARMY	RDTE/Other Defense-Exploratory Development	191	
	PSYCHROMETRICS INC	California	USAF	RDTE/Other Defense-Exploratory Development	32	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	PULSE SCIENCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	88
	QUADREX CORPORATION	Florida	ARMY	RDTE/Other Defense-Exploratory Development	88
	QUALCOMM INC	California	USAF	RDTE/Other Defense-Exploratory Development	150
	QUANSCAN INC	California	ARMY	RDTE/Other Defense-Exploratory Development	300
	QUANTEX CORPORATION	Maryland	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	50 90
	COUNTRY TOTAL				140
	QUEST RESEARCH CORPORATION	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	1,777
	QUESTECH INC	Virginia	ARMY NAVY	RDTE/Other Defense-Exploratory Development	200
	COUNTRY TOTAL				673
	R & D ASSOCIATES	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	873
	COUNTRY TOTAL				11,641
	RAYTHEON COMPANY	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	11,691
	RAYTHEON COMPANY	GERMANY, F	ARMY	RDTE/Other Defense-Exploratory Development	190
	CONTRACTOR TOTAL				2,189
	R J O ENTERPRISES INC	Maryland	USAF	RDTE/Other Defense-Exploratory Development	2,189
	RAMCOR INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	164
	RAYTHEON COMPANY	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	69
		Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	86
	COUNTRY TOTAL				40,506
	Rhode Isld	Rhode Isld	NAVY	RDTE/Other Defense-Exploratory Development	2,569
	SPAIN	SPAIN	ARMY	RDTE/Other Defense-Exploratory Development	43,075
	COUNTRY TOTAL				247
	CONTRACTOR TOTAL				65-

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$ 43,343
	RAYTHEON NORTHRP INWS JNT VNTR	California	NAVY	RDTE/Other Defense-Exploratory Development	118
	RAYTHEON SERVICE COMPANY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	456
	REGIS CHEMICAL CO	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	50
	RENSSELAER POLYTECHNIC INST	New York	NAVY	RDTE/Other Defense-Exploratory Development	50
	RESEARCH ANALYSIS AND MAINT	Texas	ARMY	RDTE/Other Defense-Exploratory Development	5,148
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	279 120 508
	COUNTRY TOTAL				907
	RIVERSIDE RESEARCH INSTITUTE	New York	ARMY	RDTE/Other Defense-Exploratory Development	2,345
	ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	659 150 1,681
	COUNTRY TOTAL				2,490
	ROHR INDUSTRIES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	446
	ROTHE DEVELOPMENTS INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	207-
	S C S TELECOM INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	2,729
	S T RESEARCH CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	230
	S Y CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	279
	SACHS FREEMAN ASSOCIATES INC	D. C. Maryland	NAVY ARMY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	47 244 60 1,653 126

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(AMOUNTS IN THOUSANDS)

R&D
CONTRACTOR NAME
COUNTRY
DEPT
--R&D DESCRIPTION--
AD92 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	--R&D DESCRIPTION--	NAVY	RDTE/Other Defense-Exploratory Development	\$	898
				COUNTRY TOTAL				1,024
				CONTRACTOR TOTAL				2,677
SAN DIEGO SEMICONDUCTORS INC	California	ARMY	RDTE/Other Defense-Exploratory Development					52
SANDERS ASSOCIATES INC	N. H.	USAF	RDTE/Other Defense-Exploratory Development					193
SANGAMO WESTON INC	S. Carolina	ARMY	RDTE/Other Defense-Exploratory Development					370
SCHAFFER W J ASSOCIATES INC	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development					3,237 1,594
				COUNTRY TOTAL				4,331
SCI TEC INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development					100
SCIENCE & ENGINEERING ASSOC	New Jersey	USAF	RDTE/Other Defense-Exploratory Development					4,931
SCIENCE APPLICATIONS INTL CORP	Colorado	ARMY	RDTE/Other Defense-Exploratory Development					62
				COUNTRY TOTAL				75
SCIENCE & TECHNOLOGY ASSOC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development					318
SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development					393
SCIENCE & TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development					59
SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Defense-Exploratory Development					536
				COUNTRY TOTAL				96
SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Defense-Exploratory Development					2,752
SCIENCE APPLICATIONS INTL CORP	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development					15,932 1,102 116
				COUNTRY TOTAL				17,150
SCIENCE APPLICATIONS INTL CORP	Nevada	ARMY	RDTE/Other Defense-Exploratory Development					371
SCIENCE APPLICATIONS INTL CORP	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development					490

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	100
(AMOUNTS IN THOUSANDS)						
AD92 (CONTINUED)						
		COUNTRY TOTAL		USAF RDTE/Other Defense-Exploratory Development	\$	590
	Ohio	USAF	RDTE/Other Defense-Exploratory Development			2,079
	Penn	USAF	RDTE/Other Defense-Exploratory Development			129
	Virginia	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development			19,236 150 593
		COUNTRY TOTAL				19,979
						43,050
	SCIENCE RESEARCH LABORATORY	ARMY	RDTE/Other Defense-Exploratory Development			480
	SCIENTIFIC RESEARCH ASSOC INC	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development			283 250
		COUNTRY TOTAL				533
	SEARCH TECHNOLOGY INC	USAF	RDTE/Other Defense-Exploratory Development			145
	SECURITIES TECH	NAVY	RDTE/Other Defense-Exploratory Development			189
	SEMA INC	NAVY	RDTE/Other Defense-Exploratory Development			60
	SEMTEX CORP	USAF	RDTE/Other Defense-Exploratory Development			250
	SENSIS CORPORATION	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development			59 503
		COUNTRY TOTAL				562
	SEQUA CORPORATION	ARMY	RDTE/Other Defense-Exploratory Development			45
	SIGMATECH INC	ARMY	RDTE/Other Defense-Exploratory Development			50
	SIGNAL PROCESSING TECHNOLOGY	ARMY	RDTE/Other Defense-Exploratory Development			49
	SIGNAL RESEARCH CENTER INC	USAF	RDTE/Other Defense-Exploratory Development			504
	SILICON DESIGNS INC	ARMY	RDTE/Other Defense-Exploratory Development			246

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

ETSCAI YEARB 1980

(AMOUNTS IN THOUSANDS)

CONTINUUM

AD92 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-
AD92 (CONTINUED)				
SIMULATION TECHNOLOGIES INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	\$ 925
	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	3,025
CONTRACTOR TOTAL		USAF	RDTE/Other Defense-Exploratory Development	3,950
SIMULATION TECHNOLOGY INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	100
SMALL BUS HIGH TECHNOLOGY INST	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	290
SOCIETY OF AUTO ENGINEERS	Penn	USAF	RDTE/Other Defense-Exploratory Development	166
SOFTWARE ARCHITECTURE & ENGRG	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	388
SOFTWARE OPTIONS INC	Mass	NAVY	RDTE/Other Defense-Exploratory Development	532
SOFTWARE PRDUCTIVITY SOLUTIONS	Florida	USAF	RDTE/Other Defense-Exploratory Development	470
SOFTWARE SYSTEMS DESIGN INC	California	NAVY	RDTE/Other Defense-Exploratory Development	369
SOHAR INCORPORATED	California	USAF	RDTE/Other Defense-Exploratory Development	91
SOL TELECOMMUNICATION SERVICE	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	853
SOLIDLITE CORP	Washington	ARMY	RDTE/Other Defense-Exploratory Development	50
SOUTHEASTN CTR ELECTR ENG ED	California	USAF	RDTE/Other Defense-Exploratory Development	130
	Florida	USAF	RDTE/Other Defense-Exploratory Development	1,013
	Kansas	USAF	RDTE/Other Defense-Exploratory Development	45
	Texas	USAF	RDTE/Other Defense-Exploratory Development	98
	Utah	USAF	RDTE/Other Defense-Exploratory Development	176
CONTRACTOR TOTAL		ARMY	RDTE/Other Defense-Exploratory Development	1,462
SOUTHERN METHODIST UNIVERSITY	Texas	ARMY	RDTE/Other Defense-Exploratory Development	4,917
SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development	259
			RDTE/Other Defense-Exploratory Development	1,250
COUNTRY TOTAL				1,509

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 166	301
		COUNTRY TOTAL			467	
	SPACE COMPUTER CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	58	
	SPACE DATA CORPORATION	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	10,610	
	SPARTA INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	150	
		California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	721	157
		COUNTRY TOTAL			878	
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	173	
		COUNTRY TOTAL			1,201	
	SPECTRA SYSTEMS	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	50	
	SPEECH SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	477	
	SPIRE CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	350	
	SRI INTERNATIONAL	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	4,936	4,467
		COUNTRY TOTAL			8,316	2,913
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	103	
		COUNTRY TOTAL			8,419	
	SRS TECHNOLOGIES	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	569	49
		COUNTRY TOTAL			618	
	SSDS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	105	
	STANFORD LEMLAND JUNIOR UNIV	California	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	650	900
		COUNTRY TOTAL			1,550	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	80
AD92 (CONTINUED)						
	STANFORD TELECOMMUNICATIONS	Virginia	USAF	RDTE/Other Defense-Exploratory Development		
	STAR MICROWAVE	California	USAF	RDTE/Other Defense-Exploratory Development		210
	STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Defense-Exploratory Development		100
	STATISTICAL CONSULTING ASSOC	Rhode Islid	ARMY	RDTE/Other Defense-Exploratory Development		233
	STRATEGIC ANALYSIS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		50
	STRESS TECH INC	New York	USAF	RDTE/Other Defense-Exploratory Development		64
	SUNBURST RECOVERY INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		50
	SUNDSTRAND CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		512 313
	COUNTRY TOTAL					825
		Illinois	ARMY	RDTE/Other Defense-Exploratory Development		75
	CONTRACTOR TOTAL					900
	SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Defense-Exploratory Development		1,526
	SWERLING MANASSE & SMITH INC	California	ARMY	RDTE/Other Defense-Exploratory Development		48
	SYMBIOTICS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		244
	SYNERTECH ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		108
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Other Defense-Exploratory Development		244
	SYRACUSE RESEARCH CORP	New York	USAF	RDTE/Other Defense-Exploratory Development		883
	SYRACUSE UNIVERSITY	Alabama	USAF	RDTE/Other Defense-Exploratory Development		100
	SYSTEM DYNAMICS INC	Mass	USAF	RDTE/Other Defense-Exploratory Development		30
		New York	USAF	RDTE/Other Defense-Exploratory Development		7,831
	CONTRACTOR TOTAL					7,961
	SYSCON CORPORATION	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		100
	SYSTEM DYNAMICS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		1,001

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1980

SANSkrit IN SINGAPORE

CONTRACTOR NAME _____

AD92 (CONTINUED)

DEPARTMENT OF DEFENSE

FISCAL YEAR 1980

SANSkrit IN SINGAPORE

CONTRACTOR NAME _____

AD92 (CONTINUED)

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$	
AD92 (CONTINUED)						
	TELECOMMUNICATION SCIENCE ASSOC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	\$ 367	
	TELEDYNE INDUSTRIES INC	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	2,518 644	
		COUNTRY TOTAL			3,162	
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	282	
		COUNTRY TOTAL			3,444	
	TEMPLE UNVRSTY CMNWLT SYST	Penn	NAVY	RDTE/Other Defense-Exploratory Development	412	
	TERRA TEK INC	Utah	ARMY	RDTE/Other Defense-Exploratory Development	513	
	TETRA CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	867	
	TEXAS A & M UNIV SYS THE	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	550 323	
		COUNTRY TOTAL			873	
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	11,924 672 810	
		COUNTRY TOTAL			13,406	
	TEXAS RESEARCH INSTITUTE INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development	110	
	TEXAS TECH UNIVERSITY	Texas	ARMY	RDTE/Other Defense-Exploratory Development	1,747	
	TG BAUER ASS	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	752	
	THINKING MACHINES CORPORATION	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	192	
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	950	
		COUNTRY TOTAL			1,142	
	THIOKOL CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	310	
	TIME DOMAIN SYSTEMS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	144	
	TOYON RESEARCH CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	2,262	

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
	TRACER TECHNOLOGIES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	TRACOR APPLIED SCIENCES INC	California	USAF	RDTE/Other Defense-Exploratory Development	194
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	314
		Texas	USAF	RDTE/Other Defense-Exploratory Development	270
	CONTRACTOR TOTAL				778
	TREADWELL CORPORATION	New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	109
	TRIFID CORP	Missouri	ARMY	RDTE/Other Defense-Exploratory Development	50
	TRW INC	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	10,281 1,337 1,235
	CONTRACTOR TOTAL				12,853
	Georgia	USAF	RDTE/Other Defense-Exploratory Development	180	
	Ohio	USAF	RDTE/Other Defense-Exploratory Development	673	
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	161	
	CONTRACTOR TOTAL				13,867
	TULANE UNIVERSITY	Louisiana	NAVY	RDTE/Other Defense-Exploratory Development	90
	UK SDIPO MINISTRY OF DEFENCE	UNITED KINGDOM	NAVY	RDTE/Other Defense-Exploratory Development	220
	ULTRAMET	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	ULTRASYSTEMS DEFENSE & SPACE	California	USAF	RDTE/Other Defense-Exploratory Development	150
	ULTRASYSTEMS WESTERN CONSTRS	California	USAF	RDTE/Other Defense-Exploratory Development	150
	UNISYS CORPORATION	Arizona	USAF	RDTE/Other Defense-Exploratory Development	225
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	100
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	71
	CONTRACTOR TOTAL				396

AD92 (CONTINUED)

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	UNITED STATES DEPT OF COMMERCE	Colorado	USAF	RDTE/Other Defense-Exploratory Development	\$ 100
	UNITED TECHNOLOGIES CORP	California	ARMY USAF	RDTE/Other Defense-Exploratory Development	291
		COUNTRY TOTAL		RDTE/Other Defense-Exploratory Development	1,479
		Conn	ARMY USAF	RDTE/Other Defense-Exploratory Development	311
		COUNTRY TOTAL		RDTE/Other Defense-Exploratory Development	665
		Florida	NAVY USAF	RDTE/Other Defense-Exploratory Development	317
		COUNTRY TOTAL		RDTE/Other Defense-Exploratory Development	7,636
	CONTRACTOR TOTAL				7,953
	UNIVERSAL ANALYTICS INC	California	USAF	RDTE/Other Defense-Exploratory Development	400
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development	48
		COUNTRY TOTAL		RDTE/Other Defense-Exploratory Development	1,468
	UNIVERSAL TECHNOLOGIES INC	Tennessee	ARMY USAF	RDTE/Other Defense-Exploratory Development	1,516
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	819
	UNIVERSAL VOLTRONICS CORP	New York	ARMY	RDTE/Other Defense-Exploratory Development	894
	UNIVERSITY OF ALABAMA	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development	146
		COUNTRY TOTAL		RDTE/Other Defense-Exploratory Development	3,032
	UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	51
	UNIVERSITY OF CALIFORNIA	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development	3,083
		COUNTRY TOTAL		RDTE/Other Defense-Exploratory Development	103
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Defense-Exploratory Development	2,024
					778
					50
					2,852
					40

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	--R&D DESCRIPTION--	
				USAF RDTE/Other Defense-Exploratory Development	\$ 29
				COUNTRY TOTAL	69
UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		100
UNIVERSITY OF CONNECTICUT	Conn	NAVY	RDTE/Other Defense-Exploratory Development		55
UNIVERSITY OF DAYTON	Arizona	USAF	RDTE/Other Defense-Exploratory Development		1,663
	Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		273 4,919
				COUNTRY TOTAL	5,192
					6,855
CONTRACTOR TOTAL					
UNIVERSITY OF FLORIDA	Florida	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		30 50
				COUNTRY TOTAL	80
UNIVERSITY OF ILLINOIS	Illinois	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		91 217
				COUNTRY TOTAL	308
UNIVERSITY OF MARYLAND	Maryland	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		1,599 1,350
				COUNTRY TOTAL	1,949
UNIVERSITY OF OKLAHOMA	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development		449
UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Other Defense-Exploratory Development		150
UNIVERSITY OF SOUTHERN CALIF	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		3,160 2,907
				COUNTRY TOTAL	6,067
UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		480 126
				COUNTRY TOTAL	606

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)	UNIVERSITY OF UTAH	Utah	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 774	953
			COUNTRY TOTAL			1,727
	UNIVERSITY OF VIRGINIA	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 143	677
			COUNTRY TOTAL			820
	UNIVERSITY OF WASHINGTON	Washington	USAF	RDTE/Other Defense-Exploratory Development	\$ 375	
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Defense-Exploratory Development	\$ 841	
	UTD INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	\$ 1,438	
	VARI-L COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	\$ 100	
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	\$ 186-	
	VARITRANS INTL	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	\$ 250	
	VARILOG	California	ARMY	RDTE/Other Defense-Exploratory Development	\$ 54	
	VECTOR MICRO	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	\$ 190	
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	\$ 32	
	VICTOR MICROWAVE INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$ 34	
	VIGYAN RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	\$ 49	
	VIRGINIA PLYTCHNIC INST/ST UNI	Virginia	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 87 176	
			COUNTRY TOTAL			263
	VISIDYNE INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$ 41	
	VISTA CONTROLS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	\$ 103	
	VISTA RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development	\$ 247	
	VITESSE SEMICONDUCTOR CORP	California	USAF	RDTE/Other Defense-Exploratory Development	\$ 95	
	VLSI DESIGN ASSOCIATES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	\$ 91	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD92 (CONTINUED)						
	WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50	
	WACO OF LUBBOCK	Texas	ARMY	RDTE/Other Defense-Exploratory Development	72	
	WADDAN SYSTEMS	California	ARMY	RDTE/Other Defense-Exploratory Development	49	
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Exploratory Development	50	
	WALLACE T H INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	981	
	WASHINGTON STATE UNIVERSITY	Washington	ARMY	RDTE/Other Defense-Exploratory Development	150	
	WASHINGTON UNIVERSITY	Missouri	USAF	RDTE/Other Defense-Exploratory Development	100	
	WEIDLINGER ASSOCIATES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	482	
		New York	ARMY	RDTE/Other Defense-Exploratory Development	1,897	
	CONTRACTOR TOTAL					
	WESTERN INSTRUMENT CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development	2,379	
	WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development	9,037	
	WESTINGHOUSE ELECTRIC CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	41	
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	5,275	
			NAVY	RDTE/Other Defense-Exploratory Development	50	
			USAF	RDTE/Other Defense-Exploratory Development	235	
		COUNTRY TOTAL				
	Ohio	USA	ARMY	RDTE/Other Defense-Exploratory Development	308	
			NAVY	RDTE/Other Defense-Exploratory Development	2,249	
			USAF	RDTE/Other Defense-Exploratory Development	284	
		COUNTRY TOTAL				
	CONTRACTOR TOTAL					
	WILLIAMS INTERNATIONAL CORP	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	3,737	
			USAF	RDTE/Other Defense-Exploratory Development	13,418	
		COUNTRY TOTAL				
					500	
					689	

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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1980

CAMINOS IN THOUSANDS

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
	ADD92 (CONTINUED)				
		COUNTRY TOTAL			
	WOODS HOLE OCNGRAPHIC INSTITUTE	Mass	NAVY	RDTE/Other Defense-Exploratory Development	\$ 1,189
	WOOLLAM J A CO	Nebraska	ARMY	RDTE/Other Defense-Exploratory Development	764
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	451
	XEROX CORPORATION	Mass	USAF	RDTE/Other Defense-Exploratory Development	373
	YALE UNIVERSITY	Conn	ARMY	RDTE/Other Defense-Exploratory Development	55
	ZEXTRON INC	California	ARMY	RDTE/Other Defense-Exploratory Development	230
	R&D TOTAL				48
					871,106
AD93	A A I CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development	718
	A T & T TECHNOLOGIES INC	N Carolina	ARMY	RDTE/Other Defense-Advanced Development	9,350
	ACUREX CORPORATION	Ohio	USAF	RDTE/Other Defense-Advanced Development	4,475
	ADAPTIVE OPTICS ASSOCIATES	Mass	USAF	RDTE/Other Defense-Advanced Development	33
	ADAPTIVE SENSORS INC	California	USAF	RDTE/Other Defense-Advanced Development	296
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	44
	ADVANCED DECISION SYSTEMS	California	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	1,588 1,468
	COUNTRY TOTAL	Virginia	USAF	RDTE/Other Defense-Advanced Development	2,056
	CONTRACTOR TOTAL				50
	ADVANCED ELECTRO MAGNETICS	New Mexico	USAF	RDTE/Other Defense-Advanced Development	2,106
	ADVANCED PROGRAMMING CONCEPTS	Texas	USAF	RDTE/Other Defense-Advanced Development	70
	ADVANCED RESOURCE DEV CORP	Maryland	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	60 49 50 99
	COUNTRY TOTAL				

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION-----	\$	
AD93 (CONTINUED)						
	ADVANCED SYSTEMS TECHNOLOGIES	Virginia	USAF	RDTE/Other Defense-Advanced Development	\$ 55	
	ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	308	
	ADVANCED TECHNOLOGY SYSTEMS	Virginia	NAVY	RDTE/Other Defense-Advanced Development	945	
	AEROCHEM RESEARCH LABORATORIES	New Jersey	NAVY	RDTE/Other Defense-Advanced Development	50	
	AEROFLEX SYSTEMS	Virginia	NAVY	RDTE/Other Defense-Advanced Development	770	
	AEROJET	California	USAF	RDTE/Other Defense-Advanced Development	559	
	AEROJET ELECTRO SYSTEMS	California	USAF	RDTE/Other Defense-Advanced Development	279	
	AERCO, SOLID PROPULSION	California	NAVY	RDTE/Other Defense-Advanced Development	621	
	AEROLIFT INC	Oregon	ARMY	RDTE/Other Defense-Advanced Development	2,329	
	ALLIED SIGNAL INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	2,564	
	ALPHATECH INC	Mass	USAF	RDTE/Other Defense-Advanced Development	588	
	AMBER ENGINEERING INC	California	NAVY	RDTE/Other Defense-Advanced Development	104	
	AMERASIA TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Advanced Development	150	
	AMERICAN HOECHST CORPORATION	New Jersey	USAF	RDTE/Other Defense-Advanced Development	200	
	AMOCO TECHNOLOGY CO	California	NAVY	RDTE/Other Defense-Advanced Development	75	
	ANALYSIS & TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Defense-Advanced Development	1,690	
	ANALYTIC SCIENCES CORP THE	Mass	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	16,648 1,998	
	COUNTRY TOTAL				18,646	
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	5,614	
	ANSALDO SPA	ITALY	USAF	RDTE/Other Defense-Advanced Development	222	
	APPLIED MATHEMATICS INC	Conn	NAVY	RDTE/Other Defense-Advanced Development	46	
	APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Other Defense-Advanced Development	678	
	AQUIDNECK SYSTEMS INTL	Rhode Isld	NAVY	RDTE/Other Defense-Advanced Development	1,000	

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

(AMOUNTS IN THOUSANDS)

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DEPARTMENT OF R&D DESCRIPTION

COUNTRY DEPI

CONTRACTOR NAME

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			\$	
ARES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	
ARETE ASSOCIATES	Virginia	NAVY	RDTE/Other Defense-Advanced Development	50
ARGOTEC INC	Florida	NAVY	RDTE/Other Defense-Advanced Development	377
ARIZONA STATE UNIVERSITY	Arizona	USAF	RDTE/Other Defense-Advanced Development	302
ASTRON RESEARCH & ENGINEERING	California	ARMY	RDTE/Other Defense-Advanced Development	282
ATLANTIC RESEARCH CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	530
	Maryland	ARMY	RDTE/Other Defense-Advanced Development	388
		NAVY	RDTE/Other Defense-Advanced Development	384
COUNTRY TOTAL				772
	New York	USAF	RDTE/Other Defense-Advanced Development	3,001
	Virginia	USAF	RDTE/Other Defense-Advanced Development	1,550
CONTRACTOR TOTAL				5,853
AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,770
AUTOMETRIC INC	Mass	USAF	RDTE/Other Defense-Advanced Development	251
CONTRACTOR TOTAL	New York	USAF	RDTE/Other Defense-Advanced Development	920
	Hawaii	USAF	RDTE/Other Defense-Advanced Development	1,171
	Mass	NAVY	RDTE/Other Defense-Advanced Development	11,063
CONTRACTOR TOTAL	Maryland	ARMY	RDTE/Other Defense-Advanced Development	338
		NAVY	RDTE/Other Defense-Advanced Development	11,401
B K DYNAMICS INC				587
BABCOCK & WILCOX COMPANY THE	Louisiana	ARMY	RDTE/Other Defense-Advanced Development	300
BALL CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	887
				6,300
				1,413

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
		Colorado	ARMY	RDTE/Other Defense-Advanced Development	1,413
	BALLINA SYSTEMS CORP	California	NAVY	RDTE/Other Defense-Advanced Development	372
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Other Defense-Advanced Development	616
	BBN COMMUNICATIONS CORP	Mass	USAF	RDTE/Other Defense-Advanced Development	505
	BDM INTERNATIONAL INC	Florida	USAF	RDTE/Other Defense-Advanced Development	1,150
		Virginia	ARMY	RDTE/Other Defense-Advanced Development	14,605
			USAF	RDTE/Other Defense-Advanced Development	210
			COUNTRY TOTAL		14,815
			CONTRACTOR TOTAL		15,965
	BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Advanced Development	520
	BIO-DYNAMICS RESEARCH DEV	Oregon	ARMY	RDTE/Other Defense-Advanced Development	112
	BIOELASTICS RESEARCH LTD	Alabama	NAVY	RDTE/Other Defense-Advanced Development	112
	BOEING COMPANY THE	Washington	ARMY	RDTE/Other Defense-Advanced Development	160
			USAF	RDTE/Other Defense-Advanced Development	6,922
			COUNTRY TOTAL		7,082
	BOLT BERANEK & NEWMAN INC	California	USAF	RDTE/Other Defense-Advanced Development	934
		Mass	USAF	RDTE/Other Defense-Advanced Development	1,445
			CONTRACTOR TOTAL		2,379
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	4,872
			USAF	RDTE/Other Defense-Advanced Development	167
			COUNTRY TOTAL		5,039
	BOSTON UNIVERSITY TRUSTEES OF	Mass	NAVY	RDTE/Other Defense-Advanced Development	3,426
	BRIGHAM YOUNG UNIVERSITY	Utah	NAVY	RDTE/Other Defense-Advanced Development	40

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
(AMOUNTS IN THOUSANDS)					
AD93 (CONTINUED)					
BROGAN ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development		147
BROWN UNIVERSITY	Rhode Isld	NAVY	RDTE/Other Defense-Advanced Development		120
BRUEL & KJAER INSTRUMENTS INC	Maryland	NAVY	RDTE/Other Defense-Advanced Development		120
CALIFORNIA ST UNIV LONG BEACH	California	USAF	RDTE/Other Defense-Advanced Development		28
CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Other Defense-Advanced Development		196
CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Advanced Development		140
CBI NA-CON INC	Illinois	USAF	RDTE/Other Defense-Advanced Development		33
CENTRE NATIONAL DE ETUDES SPATI	FRANCE	NAVY	RDTE/Other Defense-Advanced Development		2,576
CENTURY COMPUTING INC	Maryland	NAVY	RDTE/Other Defense-Advanced Development		40
CCNTRACTOR TOTAL	Virginia	ARMY	RDTE/Other Defense-Advanced Development		1,814
COHERENT TECHNOLOGIES INC	Colorado	NAVY	RDTE/Other Defense-Advanced Development		1,854
		USAFA	RDTE/Other Defense-Advanced Development		
			COUNTRY TOTAL		49
COLSA INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development		49
COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Other Defense-Advanced Development		51
COMMERCIAL OFFICE ENVIRONMENTS	Maryland	ARMY	RDTE/Other Defense-Advanced Development		89
COMMUNICATIONS SATELLITE CORP	Maryland	NAVY	RDTE/Other Defense-Advanced Development		87
COMPUTER SCIENCES CORPORATION	Virginia	USAF	RDTE/Other Defense-Advanced Development		478
COMPUTER WARE	California	ARMY	RDTE/Other Defense-Advanced Development		129
CONTRAVES ITALIANA SPA	ITALY	ARMY	RDTE/Other Defense-Advanced Development		398
CONTROL DATA CORPORATION	Minnesota	NAVY	RDTE/Other Defense-Advanced Development		85
		USAFA	RDTE/Other Defense-Advanced Development		501
			COUNTRY TOTAL		586

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD93 (CONTINUED)						
	CORIOLIS CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	\$	67
	CORNELL UNIVERSITY	New York	NAVY	RDTE/Other Defense-Advanced Development	700	
	CORTANA CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	545	
	CRYOLIFE INC	Georgia	NAVY	RDTE/Other Defense-Advanced Development	48	
	CSA ENGINEERING INC	California	USAF	RDTE/Other Defense-Advanced Development	440	
	DAMES & MOORE	Maryland	ARMY	RDTE/Other Defense-Advanced Development	900	
	DATATAPE INCORPORATED	California	NAVY	RDTE/Other Defense-Advanced Development	185	
	DAUBIN SYSTEMS CORPORATION	Florida	NAVY	RDTE/Other Defense-Advanced Development	460	
	DAVID SARNOFF RESEARCH CENTER	New Jersey	ARMY	RDTE/Other Defense-Advanced Development	375	
			USAF	RDTE/Other Defense-Advanced Development	275	
				COUNTRY TOTAL	650	
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Advanced Development	792	
	DELTA DATA SYSTEMS CORPORATION	Miss.	NAVY	RDTE/Other Defense-Advanced Development	259	
	DIRECTED TECHNOLOGIES INC	Virginia	USAF	RDTE/Other Defense-Advanced Development	300	
	DISPLAYTECH INC	Colorado	USAF	RDTE/Other Defense-Advanced Development	200	
	DOVE ELECTRONICS INC	New York	USAF	RDTE/Other Defense-Advanced Development	66	
	DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	1,648	
	DU PONT E I DE NMOURS COMPANY	Delaware	ARMY	RDTE/Other Defense-Advanced Development	500	
	DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Advanced Development	200	
	DUPONT AEROSPACE CO INC	California	USAF	RDTE/Other Defense-Advanced Development	539	
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Advanced Development	100	
	DYNCORP APPLIED TECHNOLOGY	Ohio	USAF	RDTE/Other Defense-Advanced Development	80	
	E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Other Defense-Advanced Development	293	
	E SYSTEMS INC	Florida	USAF	RDTE/Other Defense-Advanced Development	40	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD93 (CONTINUED)						
		Rhode Islid	ARMY	RDTE/Other Defense-Advanced Development	\$ 1,552	
		Texas	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	19,150 100	
				COUNTRY TOTAL	19,250	
					20,842	
	CONTRACTOR TOTAL					
	EAGLE PICHET INDUSTRIES INC	Missouri	USAF	RDTE/Other Defense-Advanced Development	200	
	EASTMAN KODAK COMPANY	New York	USAF	RDTE/Other Defense-Advanced Development	1,108	
	EATON CORPORATION	New York	ARMY	RDTE/Other Defense-Advanced Development	100	
	ELECTRONIC ASSOCIATES INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development	125	
	ELEKTRO RADIO KLEIN	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	37,280	
	ENERGY RESEARCH CORPORATION	Conn	USAF	RDTE/Other Defense-Advanced Development	1,012	
	ENERGY SCIENCE LABORATORIES	California	USAF	RDTE/Other Defense-Advanced Development	200	
	ENGINEERING COMPUTER OPTECNOMICS	Maryland	NAVY	RDTE/Other Defense-Advanced Development	45	
	ENVIRONMENTAL RESEARCH	Michigan	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	982 200	
				COUNTRY TOTAL	1,182	
		Utah	NAVY	RDTE/Other Defense-Advanced Development	50	
		Maryland	NAVY	RDTE/Other Defense-Advanced Development	1,501	
		Ohio	NAVY	RDTE/Other Defense-Advanced Development	169	
		Washington	USAF	RDTE/Other Defense-Advanced Development	249	
		Colorado	USAF	RDTE/Other Defense-Advanced Development	723	
		California	NAVY	RDTE/Other Defense-Advanced Development	200	
		California	ARMY	RDTE/Other Defense-Advanced Development	200	
		California	USAF	RDTE/Other Defense-Advanced Development	25	

Prepared By: Washington Headquarters Services
Directorate for Information
Operations and Reports

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	FOSTER MILLER INC	Maine	ARMY	RDTE/Other Defense-Advanced Development	200
		Mass	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	746 205
			COUNTRY TOTAL		951
			CONTRACTOR TOTAL		1,151
	G & F COMPANY	California	ARMY	RDTE/Other Defense-Advanced Development	16,117
	G T E LABORATORIES INC	Mass	USAF	RDTE/Other Defense-Advanced Development	55
	GEMINI COMPUTERS INCORPORATED	California	USAF	RDTE/Other Defense-Advanced Development	60
	GENCORP INC	California	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	839 52
			COUNTRY TOTAL		891
	GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Other Defense-Advanced Development	1,439
	GENERAL ATOMICS	California	USAF	RDTE/Other Defense-Advanced Development	115
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	1,252
		Missouri	ARMY	RDTE/Other Defense-Advanced Development	347
		Texas	USAF	RDTE/Other Defense-Advanced Development	89
			CONTRACTOR TOTAL		1,688
	GENERAL ELECTRIC CO	Arizona	USAF	RDTE/Other Defense-Advanced Development	396
		Maryland	ARMY	RDTE/Other Defense-Advanced Development	143
		New Jersey	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	925 1,918
			COUNTRY TOTAL		2,843
		New York	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	238 3,630
			COUNTRY TOTAL		3,868

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD93 (CONTINUED)						
		Ohio	USAF	RDTE/Other Defense-Advanced Development	\$	476
		Penn	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		49,035 1,720
				COUNTRY TOTAL		50,755
						58,481
	GENERAL MOTORS CORPORATION	Indiana	USAF	RDTE/Other Defense-Advanced Development		90-
	GENERAL RESEARCH CORPORATION	California	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		2,110 1,331
				COUNTRY TOTAL		3,441
						110
	GENERAL SOFTWARE CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development		248
	GENTEX CORPORATION	Penn	USAF	RDTE/Other Defense-Advanced Development		248
	GEORGIA TECH RESEARCH INST	Georgia	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		2,150 140 300
				COUNTRY TOTAL		2,590
						100
	GINER INC	Mass	NAVY	RDTE/Other Defense-Advanced Development		100
	GOULD INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development		245
	GRIFFIN MICHAEL	California	ARMY	RDTE/Other Defense-Advanced Development		150-
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		3,500 4,453
				COUNTRY TOTAL		7,953
						100
	GRUMMAN CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development		365
	GRUMMAN DATA SYSTEMS CORP	New York	USAF	RDTE/Other Defense-Advanced Development		90
	GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Other Defense-Advanced Development		601
		Colorado	USAF	RDTE/Other Defense-Advanced Development		
		Mass	USAF	RDTE/Other Defense-Advanced Development		1,105

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
CONTRACTOR TOTAL						
	HAMPSHIRE INSTRUMENTS INC	Mass	NAVY	RDTE/Other Defense-Advanced Development	\$ 1,796	
	HARRIS CORPORATION	Florida	USAF	RDTE/Other Defense-Advanced Development	2,313	
	HARRIS GROUP THE INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	599	
	HARVARD UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Advanced Development	80	
	HERCULES INCORPORATED	Utah	NAVY	RDTE/Other Defense-Advanced Development	215	
	HONEYWELL INC	Minnesota	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	100 390 632	
COUNTRY TOTAL						
	HOPPMANN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,022	
	HUGHES AIRCRAFT COMPANY	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	93 1,098 150	
COUNTRY TOTAL						
	HUGHES ASSOCIATES INC	D.C.	NAVY	RDTE/Other Defense-Advanced Development	9,151	
		Maryland	NAVY	RDTE/Other Defense-Advanced Development	10,399	
CONTRACTOR TOTAL						
	I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Defense-Advanced Development	403	
	I I T RESEARCH INSTITUTE	Colorado	USAF	RDTE/Other Defense-Advanced Development	1,348	
		Illinois	ARMY	RDTE/Other Defense-Advanced Development	1,751	
		New York	USAF	RDTE/Other Defense-Advanced Development	2,050	
CONTRACTOR TOTAL						
	INTERMAGNETICS GENERAL CORP	New York	ARMY	RDTE/Other Defense-Advanced Development	27	
	INTERMETRICS INC	Mass	USAF	RDTE/Other Defense-Advanced Development	300 27 354 270 100	

**DEPARTMENT OF DEFENSE
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	307
CONTRACTOR TOTAL						
	INTEROCEAN SYSTEMS INC	California	NAVY	RDTE/Other Defense-Advanced Development		407
	IOWA STATE UNIV SCNC	Iowa	NAVY	RDTE/Other Defense-Advanced Development		49
	ISOHERMAL SYSTEMS RESEARCH	Washington	USAF	RDTE/Other Defense-Advanced Development		50
	ISREALI MINISTRY OF DEFENSE	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development		49
	JAMIESON SCIENCE & ENGINEERING	Maryland	ARMY	RDTE/Other Defense-Advanced Development		710
	JASON ASSOCIATES CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development		2,163
	JAYCOR	California	NAVY	RDTE/Other Defense-Advanced Development		1,329
		Colorado	ARMY	RDTE/Other Defense-Advanced Development		174
						200
CONTRACTOR TOTAL						
	KAMAN SCIENCES CORPORATION	Colorado	USAF	RDTE/Other Defense-Advanced Development		374
	KBM ENTERPRISES INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development		531
	KESTREL INSTITUTE	California	USAF	RDTE/Other Defense-Advanced Development		88
	KNOWLEDGE SYSTEMS CONCEPTS	California	USAF	RDTE/Other Defense-Advanced Development		468
		New York	USAF	RDTE/Other Defense-Advanced Development		370
						294
CONTRACTOR TOTAL						
	KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Advanced Development		664
	KTAADN INC	Mass	USAF	RDTE/Other Defense-Advanced Development		440
	LASER SURGE	New York	NAVY	RDTE/Other Defense-Advanced Development		50
	LICA SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development		196
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Other Defense-Advanced Development		622
	LITTON INDUSTRIES INC	Mass	USAF	RDTE/Other Defense-Advanced Development		155
						753

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
LITTON SYSTEMS INC	Maryland	USAF	RDTE/Other Defense-Advanced Development		75
LOCKHEED CORPORATION	Georgia	ARMY	RDTE/Other Defense-Advanced Development		500
LOCKHEED ELECTRONICS CO	New Jersey	ARMY	RDTE/Other Defense-Advanced Development		34
LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Other Defense-Advanced Development		575
	Texas	USAF	RDTE/Other Defense-Advanced Development		143
CONTRACTOR TOTAL					718
LORAL CORPORATION	Arizona	USAF	RDTE/Other Defense-Advanced Development		829
	California	ARMY	RDTE/Other Defense-Advanced Development		186
	Ohio	ARMY	RDTE/Other Defense-Advanced Development		2,770
CONTRACTOR TOTAL					3,785
LTV AEROSPACE & DEF CO	Texas	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		44,129 4448
	COUNTRY TOTAL				44,577
M R J INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development		1,181
M/A-COM INC	Mass	USAF	RDTE/Other Defense-Advanced Development		399
MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Defense-Advanced Development		1,069
MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Other Defense-Advanced Development		200
MANTECH INTERNATIONAL CORP	Ohio	USAF	RDTE/Other Defense-Advanced Development		1,776
MAR INCORPORATED	Maryland	NAVY	RDTE/Other Defense-Advanced Development		1,200
MARINE ACOUSTICS INC	Mass	NAVY	RDTE/Other Defense-Advanced Development		84
MARINE IMAGING SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Advanced Development		683
MARINE SPECIALTY CORP	Arkansas	NAVY	RDTE/Other Defense-Advanced Development		44
MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Other Defense-Advanced Development		20,276

DEPARTMENT OF DEFENSE
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION	\$	
AD93 (CONTINUED)						
		NAVY	USAFAF	RDTE/Other Defense-Advanced Development	88	
		USAFAF	RDTE/Other Defense-Advanced Development		3,380	
		COUNTRY TOTAL			23,744	
	Florida	USAFAF	RDTE/Other Defense-Advanced Development		125	
	Maryland	ARMY USAFAF	RDTE/Other Defense-Advanced Development	RDTE/Other Defense-Advanced Development	7,949	
		COUNTRY TOTAL			212	
					8,161	
					32,030	
		COUNTRY TOTAL				
	MARYLAND MEDICAL LABORATORY	Maryland	NAVY	RDTE/Other Defense-Advanced Development	75	
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Other Defense-Advanced Development	68	
	MC DONNELL DOUGLAS CORPORATION	California	NAVY USAFAF	RDTE/Other Defense-Advanced Development	1,276	
		COUNTRY TOTAL			2,202	
					3,478	
		COUNTRY TOTAL				
	Colorado	ARMY	RDTE/Other Defense-Advanced Development		11,479	
	Missouri	ARMY USAFAF	RDTE/Other Defense-Advanced Development	RDTE/Other Defense-Advanced Development	500	
		COUNTRY TOTAL			4,628	
					5,128	
					20,085	
		COUNTRY TOTAL				
	MEI ASSOCIATES INCORPORATED	Mass	USAFAF	RDTE/Other Defense-Advanced Development	127	
	MERIT TECHNOLOGY INC	Texas	NAVY	RDTE/Other Defense-Advanced Development	168	
	MESSERSCHMITT BOELKOW BLOHM	GERMANY, F	ARMY	RDTE/Other Defense-Advanced Development	3,797	
	MIDWEST SYSTEMS RESEARCH INC	Ohio	USAFAF	RDTE/Other Defense-Advanced Development	86	
	MINNESOTA MIN & MFG COMPANY	Minnesota	NAVY	RDTE/Other Defense-Advanced Development	354	
	MISSION RESEARCH CORPORATION	California	ARMY NAVY	RDTE/Other Defense-Advanced Development	122	
		COUNTRY TOTAL			130	
					252	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD93 (CONTINUED)						
	MISSION SCIENCES CORP	New York		NAVY RDTE/Other Defense-Advanced Development	\$ 165	
	NATIONAL ACADEMY SCIENCES USA	D.C.		NAVY RDTE/Other Defense-Advanced Development	452	
	NATIONAL AERONAUTICS SPC ADMIN	Alabama		USAF RDTE/Other Defense-Advanced Development	110	
	NATIVE AMERICAN SERVICE ASSN	Alabama		ARMY RDTE/Other Defense-Advanced Development	2,211	
	NETROLOGIC INC	California		NAVY RDTE/Other Defense-Advanced Development	50	
	NEW ENGLAND DACONESS HOSP CORP	Mass		NAVY RDTE/Other Defense-Advanced Development	157	
	NEW YORK BLOOD CENTER INC	New York		NAVY RDTE/Other Defense-Advanced Development	230	
	NEWPORT NEWS SHPBLDING DRYDOCK	Virginia		ARMY RDTE/Other Defense-Advanced Development	612	
	NIAGARA SYS SOFTWARE INC	New York		NAVY RDTE/Other Defense-Advanced Development	49	
	NICHOLLS RESEARCH CORPORATION	Alabama		ARMY RDTE/Other Defense-Advanced Development	168	
	NIELSEN ENGINEERING & RES	California		ARMY RDTE/Other Defense-Advanced Development	343	
	NORTH CAROLINA STATE UNIV	N Carolina		NAVY RDTE/Other Defense-Advanced Development	782	
	NORTHROP CORPORATION	California		USAF RDTE/Other Defense-Advanced Development	700	
		Illinois		USAF RDTE/Other Defense-Advanced Development	500	
	CONTRACTOR TOTAL				1,200	
	NYSERNET INC	New York		USAF RDTE/Other Defense-Advanced Development	3,240	
	ODYSSEY RESEARCH ASSOCIATES	New York		USAF RDTE/Other Defense-Advanced Development	957	
	OHIO STATE UNIVERSITY	Ohio		USAF RDTE/Other Defense-Advanced Development	40	
	OLD DMNION UNIV RES FOUNDATION	Virginia		NAVY RDTE/Other Defense-Advanced Development	60	
	OPTRON SYSTEMS INC	Mass		NAVY RDTE/Other Defense-Advanced Development	827	
	OREGON HEALTH SCIENCES UNIV	Oregon		NAVY RDTE/Other Defense-Advanced Development	222	
	ORLANDO TECHNOLOGY INC	Florida		USAF RDTE/Other Defense-Advanced Development	1,669	
	ORTEL CORPORATION	California		USAF RDTE/Other Defense-Advanced Development	239	
	OXLEY RESEARCH INC	Conn		NAVY RDTE/Other Defense-Advanced Development	48	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD93 (CONTINUED)						
PACIFIC APPLIED RESEARCH INC	California	USAF	RDTE/Other	Defense-Advanced Development	62	
PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Other	Defense-Advanced Development	50	
		NAVY	RDTE/Other	Defense-Advanced Development	1,230	
	COUNTRY TOTAL				1,280	
PAR TECHNOLOGY CORPORATION	California	USAF	RDTE/Other	Defense-Advanced Development	329	
	Conn	USAF	RDTE/Other	Defense-Advanced Development	300	
	Nebraska	USAF	RDTE/Other	Defense-Advanced Development	508	
	New York	USAF	RDTE/Other	Defense-Advanced Development	6,137	
	Virginia	USAF	RDTE/Other	Defense-Advanced Development	624	
	CONTRACTOR TOTAL				7,898	
PARSONS RALPH M COMPANY THE	California	ARMY	RDTE/Other	Defense-Advanced Development	5,664	
PENNSYLVANIA STATE UNIV THE	Penn	NAVY	RDTE/Other	Defense-Advanced Development	87	
PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Other	Defense-Advanced Development	2,254	
PHOTONICS SYSTEM INC	Florida	NAVY	RDTE/Other	Defense-Advanced Development	61	
PHYSICAL DYNAMICS INC	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	857	
PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Other	Defense-Advanced Development	80	
PLANNING RESEARCH CORPORATION	Virginia	USAF	RDTE/Other	Defense-Advanced Development	350	
PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other	Defense-Advanced Development	2,256	
POLARIS INC	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	45	
POLYTECHNIC UNIV OF NEW YORK	New York	NAVY	RDTE/Other	Defense-Advanced Development	100	
PRECISION FILTERS INC	New York	NAVY	RDTE/Other	Defense-Advanced Development	29	
PROCODYNE CORP	New Jersey	NAVY	RDTE/Other	Defense-Advanced Development	250	
PURDUE UNIVERSITY	Indiana	NAVY	RDTE/Other	Defense-Advanced Development	31	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD93 (CONTINUED)						
	R J O ENTERPRISES INC	Maryland	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	\$ 667	486
		COUNTRY TOTAL				1,153
		Virginia	ARMY	RDTE/Other Defense-Advanced Development		166
	CONTRACTOR TOTAL					1,319
	R T S LABORATORIES INC	Florida	USAF	RDTE/Other Defense-Advanced Development		98
	RADKOWSKI ASSOCIATES	Maryland	NAVY	RDTE/Other Defense-Advanced Development		30
	RASOR ASSOCIATES INC	California	USAF	RDTE/Other Defense-Advanced Development		325
	RAYTHEON COMPANY	Mass	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		4,583
		COUNTRY TOTAL				4,989
	REFRACTORY COMPOSITES INC	California	USAF	RDTE/Other Defense-Advanced Development		139
	RESEARCH TRIANGLE INSTITUTE	N Carolina	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		1,487
		COUNTRY TOTAL				1,626
	RIVERSIDE RESEARCH INSTITUTE	New York	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		2,701
		COUNTRY TOTAL				3,313
	ROCKWELL INTERNATIONAL	California	ARMY	RDTE/Other Defense-Advanced Development		6,014
	ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		2,710
		COUNTRY TOTAL				30
	S T SYSTEMS CORPORATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development		1,160
	SACHS FREEMAN ASSOCIATES INC	D. C.	NAVY	RDTE/Other Defense-Advanced Development		2,559
	SAN JOSE STATE UNIVERSITY	California	USAF	RDTE/Other Defense-Advanced Development		3,749
		COUNTRY TOTAL				3,749
		Maryland	NAVY	RDTE/Other Defense-Advanced Development		231
		D. C.	NAVY	RDTE/Other Defense-Advanced Development		384
		SAN JOSE STATE UNIVERSITY	USAF	RDTE/Other Defense-Advanced Development		68

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION
SANDERS ASSOCIATES INC	N. H.	USAF	RDTE/Other Defense-Advanced Development	\$ 51	
SCHAFFER W J ASSOCIATES INC	Mass	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	5,245 250	
			COUNTRY TOTAL	5,495	
SCHMITT TECHNOLOGY	Conn	NAVY	RDTE/Other Defense-Advanced Development	213	
SCIENCE APPLICATIONS INT'L CORP	Alabama	ARMY	RDTE/Other Defense-Advanced Development	1,024	
	Arizona	USAF	RDTE/Other Defense-Advanced Development	2,396	
	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	3,333 1,792 560	
			COUNTRY TOTAL	5,685	
SEA SPACE INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	1,665	
	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,156	
			CONTRACTOR TOTAL	11,926	
SEMA INC	California	NAVY	RDTE/Other Defense-Advanced Development	49	
SIMPEX TECHNOLOGIES INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,400	
SIMULATION TECHNOLOGIES INC	California	ARMY	RDTE/Other Defense-Advanced Development	643	
SIPPICAN INC	Ohio	ARMY	RDTE/Other Defense-Advanced Development	534	
SOFTWARE PRODUCTIVITY SOLUTIONS	Mass	NAVY	RDTE/Other Defense-Advanced Development	212	
SOREG NEUCLEAR RESEARCH CENTER	Florida	USAF	RDTE/Other Defense-Advanced Development	395	
SOUTHEASTN CTR ELECTR ENG ED	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	783	
SPACE APPLICATIONS CORPORATION	Florida	USAF	RDTE/Other Defense-Advanced Development	319	
SPACE POWER INCORPORATED	California	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	1,570 618	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	SOPARTA INC	California	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	\$ 54 61
		COUNTRY TOTAL			115
	SPERRY CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development	100
	SRI INTERNATIONAL	California	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	571 2,148
		COUNTRY TOTAL			2,719
	SRS TECHNOLOGIES	California	ARMY	RDTE/Other Defense-Advanced Development	3,979
	STANFORD LELAND JUNIOR UNIV	California	NAVY	RDTE/Other Defense-Advanced Development	630
	STANFORD TELECOMMUNICATIONS	Virginia	USAF	RDTE/Other Defense-Advanced Development	300
	STEVENS INST OF TECHNOLOGY	New Jersey	NAVY	RDTE/Other Defense-Advanced Development	197
	SUBSEA ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Defense-Advanced Development	869
	SUMMIT RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	50
	SYNECTICS CORP	Virginia	USAF	RDTE/Other Defense-Advanced Development	524
	SYNLECTICS CORPORATION	Mass	NAVY	RDTE/Other Defense-Advanced Development	50
	SYNTEK ENGRG COMPUTER SYSTEMS	Maryland	NAVY	RDTE/Other Defense-Advanced Development	795
	SYRACUSE UNIVERSITY	New York	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	74 120
		COUNTRY TOTAL			194
	SYSTEM DEVELOPMENT CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	936
	SYSTEM DYNAMICS INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development	180
		Florida	ARMY	RDTE/Other Defense-Advanced Development	140
		CONTRACTOR TOTAL			320
	SYSTEMS ANALYSIS INTERGRATION	California	NAVY	RDTE/Other Defense-Advanced Development	913

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	SYSTEMS EXPLORATION INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	\$ 1,463
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Other Defense-Advanced Development	259
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Advanced Development	3,102
	TECHNLOGY ASSESSMENT TRANSF INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	600
	TECOGEN INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	36-
	TEKNOWLEDGE INC	California	USAF	RDTE/Other Defense-Advanced Development	1,150
	TELEDYNE INDUSTRIES INC	Oregon	NAVY	RDTE/Other Defense-Advanced Development	120
	TEMPLE UNVRSTY CMNWLT SYST	Penn	NAVY	RDTE/Other Defense-Advanced Development	179
	TEXAS A & M UNIV SYS THE	Texas	USAF	RDTE/Other Defense-Advanced Development	94
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	3,716 180
	COUNTRY TOTAL				3,896
	THERMACORE INC	Penn	USAF	RDTE/Other Defense-Advanced Development	79
	THOMSON CONSUMER ELECTRONICS	New York	USAF	RDTE/Other Defense-Advanced Development	623
	TIL DEFENSE SYSTEMS	ISRAEL	USAF	RDTE/Other Defense-Advanced Development	82
	TINSLEY LABORATORIES INC	California	USAF	RDTE/Other Defense-Advanced Development	3,101
	TITAN SYSTEMS INC	California	USAF	RDTE/Other Defense-Advanced Development	198
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Advanced Development	831
	TRACOR FLIGHT SYSTEMS INC	California	ARMY	RDTE/Other Defense-Advanced Development	1,534
	TRANS SCIENCE CORP	California	NAVY	RDTE/Other Defense-Advanced Development	125
	TRANSUE INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	92
	TRW INC	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	2,123 4,930 177

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD93 (CONTINUED)						
		COUNTRY TOTAL				
		Virginia	USAF	RDTE/Other Defense-Advanced Development		
					164	
					7,394	
		CONTRACTOR TOTAL				
U F A INC	Mass	USAF	RDTE/Other Defense-Advanced Development			35
U S FOOD & DRUG ADMINISTRATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development			93
UNISYS CORPORATION	Minnesota	USAF	RDTE/Other Defense-Advanced Development			1,874
	New York	USAF	RDTE/Other Defense-Advanced Development			5,925
	Ohio	USAF	RDTE/Other Defense-Advanced Development			174
		CONTRACTOR TOTAL				
UNITED KINGDOM MINISTRY OF DEF	UNITED KING	ARMY	RDTE/Other Defense-Advanced Development			7,973
UNITED STATES DEPT ENERGY	Washington	USAF	RDTE/Other Defense-Advanced Development			3,993
UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Other Defense-Advanced Development			808
UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Other Defense-Advanced Development			126
UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development			41
UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Other Defense-Advanced Development			488
UNIVERSITY OF ALABAMA	Alabama	NAVY	RDTE/Other Defense-Advanced Development			179
UNIVERSITY OF ARIZONA	Arizona	NAVY	RDTE/Other Defense-Advanced Development			100
UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Defense-Advanced Development			1,063
UNIVERSITY OF COLORADO	Colorado	NAVY	RDTE/Other Defense-Advanced Development			45
UNIVERSITY OF DAYTON	Arizona	USAF	RDTE/Other Defense-Advanced Development			53
	Ohio	USAF	RDTE/Other Defense-Advanced Development			1,706
		CONTRACTOR TOTAL				
UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Other Defense-Advanced Development			1,759
						1,323

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD93 (CONTINUED)						
UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Other Defense-Advanced Development		69	
UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Other Defense-Advanced Development		242	
UNIVERSITY OF MICHIGAN	D.C.	NAVY	RDTE/Other Defense-Advanced Development		47	
	Michigan	NAVY	RDTE/Other Defense-Advanced Development		105	
CONTRACTOR TOTAL						
UNIVERSITY OF MINNESOTA	Minnesota	NAVY	RDTE/Other Defense-Advanced Development		213	
UNIVERSITY OF NOTRE DAME	Indiana	NAVY	RDTE/Other Defense-Advanced Development		73	
UNIVERSITY OF SOUTH CAROLINA	S Carolina	NAVY	RDTE/Other Defense-Advanced Development		101	
UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Other Defense-Advanced Development		1,935	
	USAFA	RDTE/Other Defense-Advanced Development			250	
COUNTRY TOTAL						
UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Other Defense-Advanced Development		124	
UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Other Defense-Advanced Development		159	
UNIVERSITY RESEARCH CORP	Maryland	NAVY	RDTE/Other Defense-Advanced Development		126	
UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Defense-Advanced Development		15,357	
VANGUARD RESEARCH INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development		200	
VARIAN ASSOCIATES INC	California	USAFA	RDTE/Other Defense-Advanced Development		1,160	
VEDA INCORPORATED	Ohio	USAF	RDTE/Other Defense-Advanced Development		875	
WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other Defense-Advanced Development		87	
WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development		1,941	
	USAFA	RDTE/Other Defense-Advanced Development			4,511	
COUNTRY TOTAL						
Penn	USAF	RDTE/Other Defense-Advanced Development			6,452	
CONTRACTOR TOTAL						
					292	
					6,744	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$	
AD93 (CONTINUED)						
	WILSON GREATBATCH LTD	New York	NAVY	RDTE/Other Defense-Advanced Development	\$	58
	XERAD INC	California	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		791 84
		COUNTRY TOTAL				875
	ZIEGER ABRAMS INCORPORATED	Penn	USAF	RDTE/Other Defense-Advanced Development		49
	R&D TOTAL					613,009
AD94	ADVANCED DECISION SYSTEMS	California	USAF	RDTE/Other Defense-Engineering Development		395
	ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Other Defense-Engineering Development		300
	AMERICAN RESEARCH CORP VA	Virginia	NAVY	RDTE/Other Defense-Engineering Development		49
	ANALYTIC SCIENCES CORP THE	Florida	USAF	RDTE/Other Defense-Engineering Development		531
	ANALYTICAL SYSTEMS ENGRG CORP	California	USAF	RDTE/Other Defense-Engineering Development		419
	Florida	USAF	RDTE/Other Defense-Engineering Development			479
	Maryland	USAF	RDTE/Other Defense-Engineering Development			450
	New York	USAF	RDTE/Other Defense-Engineering Development			142
	Ohio	USAF	RDTE/Other Defense-Engineering Development			220
	Virginia	USAF	RDTE/Other Defense-Engineering Development			43
	GERMANY, F	USAF	RDTE/Other Defense-Engineering Development			44
	CONTRACTOR TOTAL					1,797
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Engineering Development		60
	AUGUST DESIGN & DEVELOPMENT	Penn	ARMY	RDTE/Other Defense-Engineering Development		350
	BALL CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development		6,937
	BDM CORPORATION	Ohio	USAF	RDTE/Other Defense-Engineering Development		358
	BOEING COMPANY THE	Washington	USAF	RDTE/Other Defense-Engineering Development		6,837
	BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Other Defense-Engineering Development		253

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD94 (CONTINUED)						
	BROWN DAYTON T INC	New York	NAVY	RDTE/Other Defense-Engineering Development	\$ 1,585	
	BUNKER RAMO ELTRA CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	59	
	C A E INDUSTRIES LTD	Texas	USAF	RDTE/Other Defense-Engineering Development	6,333	
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Engineering Development	304	
	CHAMBERLAIN MANUFACTURING CORP	Maryland	ARMY	RDTE/Other Defense-Engineering Development	2,554	
	CHARLES RIVER ANALYTICS INC	Mass	USAF	RDTE/Other Defense-Engineering Development	50	
	CICCONE V J & ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Engineering Development	168	
	COLSA INC	Alabama	ARMY	RDTE/Other Defense-Engineering Development	1,229	
	COMPUTER SCIENCE INNOVATIONS	Florida	USAF	RDTE/Other Defense-Engineering Development	65	
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Other Defense-Engineering Development	1,708	
	DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Engineering Development	455	
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Defense-Engineering Development	735	
	DURODYNE INC	Arizona	USAF	RDTE/Other Defense-Engineering Development	271	
	E G & G ALMOND INSTRUMENTS INC	California	NAVY	RDTE/Other Defense-Engineering Development	258	
	E SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Engineering Development	4,697	
	EATON CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	2,865	
	ECONOMICS TECHNOLOGY ASSOC	California	USAF	RDTE/Other Defense-Engineering Development	2,075	
	ELECTRONIC ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Engineering Development	50	
	ESSEX CORPORATION	Penn	NAVY	RDTE/Other Defense-Engineering Development	205	
	FAGIN SAMUEL L ASSOC	Penn	NAVY	RDTE/Other Defense-Engineering Development	45	
	GAERTNER W W RESEARCH INC	Conn	NAVY	RDTE/Other Defense-Engineering Development	482	
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	1,275	
	GENERAL DYNAMICS WESTNGHSE JV	California	NAVY	RDTE/Other Defense-Engineering Development	5,000	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD94 (CONTINUED)						
	GENERAL ELECTRIC CO	New Jersey	NAVY	RDTE/Other Defense-Engineering Development	\$ 296	
	GENERAL MOTORS CORPORATION	Michigan	ARMY	RDTE/Other Defense-Engineering Development	11,950	
	GEORGIA TECH RESEARCH INST	Georgia	USAF	RDTE/Other Defense-Engineering Development	230	
	GHOSTECH INC	Penn	NAVY	RDTE/Other Defense-Engineering Development	730	
	GRASEBY DYNAMICS LTD	UNITED KINGDOM	ARMY	RDTE/Other Defense-Engineering Development	26	
	HONEYWELL INC	Minnesota	ARMY	RDTE/Other Defense-Engineering Development	4,764	
	HORIZONS TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Engineering Development	69-	
	HOWDEN COLONEY INC	Florida	USAF	RDTE/Other Defense-Engineering Development	639	
	HRB SINGER INC	Penn	USAF	RDTE/Other Defense-Engineering Development	100	
	HUGHES AIRCRAFT & RAYTHEON JV	California	NAVY	RDTE/Other Defense-Engineering Development	10,800	
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Other Defense-Engineering Development	304	
	INTEGRATED SOFTWARE INC	Florida	NAVY	RDTE/Other Defense-Engineering Development	514	
	INTERMETRICS INC	Ohio	USAF	RDTE/Other Defense-Engineering Development	240	
		Penn	NAVY	RDTE/Other Defense-Engineering Development	650	
	CONTRACTOR TOTAL				890	
	ITT CORPORATION	Indiana	USAF	RDTE/Other Defense-Engineering Development	141	
	JAYCOR	Ohio	USAF	RDTE/Other Defense-Engineering Development	747	
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Engineering Development	473	
	LITTON SYSTEMS INC	California	USAF	RDTE/Other Defense-Engineering Development	70	
		New Jersey	NAVY	RDTE/Other Defense-Engineering Development	42	
		New York	USAF	RDTE/Other Defense-Engineering Development	200	
	CONTRACTOR TOTAL				312	
	LOCKHEED CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	565	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$	201-
AD94 (CONTINUED)						
	LOGICON INC	California	USAF	RDTE/Other Defense-Engineering Development		
	LOGISTICS MANAGEMENT ENRG	Maryland	NAVY	RDTE/Other Defense-Engineering Development	95	
	LORAL FAIRCHILD SYSTEMS INC	New York	NAVY	RDTE/Other Defense-Engineering Development	11,694	
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Other Defense-Engineering Development	113	
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Defense-Engineering Development	235	
	MANDEX INC	Virginia	NAVY	RDTE/Other Defense-Engineering Development	255	
	MARTIN BAKER AIRCRAFT CO LTD	UNITED KINGDOM	NAVY	RDTE/Other Defense-Engineering Development	8,565	
	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	100	
		Colorado	USAF	RDTE/Other Defense-Engineering Development	305	
		Florida	USAF	RDTE/Other Defense-Engineering Development	295	
		Maryland	ARMY USAF	RDTE/Other Defense-Engineering Development RDTE/Other Defense-Engineering Development	8,700 84	
	COUNTRY TOTAL				8,784	
		New York	USAF	RDTE/Other Defense-Engineering Development	99	
		Virginia	USAF	RDTE/Other Defense-Engineering Development	285	
	CONTRACTOR TOTAL				9,868	
	MC DONNELL DOUGLAS INCO INC	Colorado	USAF	RDTE/Other Defense-Engineering Development	3,557	
	MEI ASSOCIATES INCORPORATED	Mass	USAF	RDTE/Other Defense-Engineering Development	463	
	MERIT TECHNOLOGY INC	Texas	USAF	RDTE/Other Defense-Engineering Development	93	
	METRON CORPORATION	Penn	NAVY	RDTE/Other Defense-Engineering Development	234	
	MILITARY VEHICLES OPTN GM CORP	Michigan	ARMY	RDTE/Other Defense-Engineering Development	32	
	MILLITECH CORPORATION	Mass	ARMY	RDTE/Other Defense-Engineering Development	50	
	MINE SAFETY APPLS COMPANY	Maryland	NAVY	RDTE/Other Defense-Engineering Development	57-	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD94 (CONTINUED)						
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Engineering Development	\$ 471	
		D.C.	NAVY	RDTE/Other Defense-Engineering Development	182	
	CONTRACTOR TOTAL				653	
MORGAN LEWIS & BOCKIUS	Texas	NAVY	RDTE/Other Defense-Engineering Development		151	
NEW ENGLAND STEEL TANK CO	Mass	NAVY	RDTE/Other Defense-Engineering Development		195	
NOVATECH CORPORATION	Colorado	NAVY	RDTE/Other Defense-Engineering Development		52	
ODETICS INC	California	USAF	RDTE/Other Defense-Engineering Development		101	
ORPHIC SYSTEMS INCORPORATED	Penn	ARMY	RDTE/Other Defense-Engineering Development		46	
OSHKOSH TRUCK CORPORATION	Wisconsin	ARMY	RDTE/Other Defense-Engineering Development		10,436	
PACCAR INC	Washington	ARMY	RDTE/Other Defense-Engineering Development		5,247	
PERCEPTRONICS INC	Penn	NAVY	RDTE/Other Defense-Engineering Development		100	
PLAS TOOL CO	Illinois	ARMY	RDTE/Other Defense-Engineering Development		50	
QUEST RESEARCH CORPORATION	Virginia	NAVY	RDTE/Other Defense-Engineering Development		531	
RAYTHEON COMPANY	Mass	NAVY	RDTE/Other Defense-Engineering Development		262	
		USAF	RDTE/Other Defense-Engineering Development		271	
	COUNTRY TOTAL				333	
ROCKWELL INTERNATIONAL CORP	New Mexico	USAF	RDTE/Other Defense-Engineering Development		52	
ROLLS ROYCE INC	UNITED KINGDOM	NAVY	RDTE/Other Defense-Engineering Development		23,161	
ROTATING PRECISION MECHANISMS	California	ARMY	RDTE/Other Defense-Engineering Development		48	
ROTHE DEVELOPMENTS INC	Texas	USAF	RDTE/Other Defense-Engineering Development		81	
SCI TEC INC	New Jersey	ARMY	RDTE/Other Defense-Engineering Development		134	
SCIENCE APPLICATIONS INT'L CORP	Alabama	ARMY	RDTE/Other Defense-Engineering Development		1,099	
	California	ARMY	RDTE/Other Defense-Engineering Development		967	

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
(AMOUNTS IN THOUSANDS)						
	AD94 (CONTINUED)					
	CONTRACTOR TOTAL					
	SCOPE INCORPORATED	Ohio	USAF	RDTE/Other Defense-Engineering Development	\$ 1,494	
	SIMULATION TECHNOLOGIES INC	Virginia	NAVY	RDTE/Other Defense-Engineering Development	50	
	SINGER COMPANY THE	Virginia	USAF	RDTE/Other Defense-Engineering Development	4,610	
	GERMANY, F	Alabama	ARMY	RDTE/Other Defense-Engineering Development	89	
	SOCIETE GENERALE DES TAPIS SA	Arkansas	USAF	RDTE/Other Defense-Engineering Development	125	
	SOFTECH INC	GERMANY, F	NAVY	RDTE/Other Defense-Engineering Development	1,536	
	SOFTWARE TECHNOLOGY INC	Virginia	USAF	RDTE/Other Defense-Engineering Development	560	
	SOUTHWEST RESEARCH INSTITUTE	Florida	NAVY	RDTE/Other Defense-Engineering Development	6,739	
	SPRINGBORN LABORATORIES INC	Texas	USAF	RDTE/Other Defense-Engineering Development	732	
	SRI INTERNATIONAL	Conn	NAVY	RDTE/Other Defense-Engineering Development	55	
	SYNERGISTIC TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Engineering Development	58	
	SYRACUSE RESEARCH CORP	California	ARMY	RDTE/Other Defense-Engineering Development	3,435	
	SYSTEM DYNAMICS INC	New York	NAVY	RDTE/Other Defense-Engineering Development	248	
		Alabama	ARMY	RDTE/Other Defense-Engineering Development	220	
		Florida	ARMY	RDTE/Other Defense-Engineering Development	62	
	CONTRACTOR TOTAL				196	
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Engineering Development	258	
	TECHNION RESEARCH & DEVELOPMEN	ISRAEL	USAF	RDTE/Other Defense-Engineering Development	515	
	TERRA TEK INC	Utah	NAVY	RDTE/Other Defense-Engineering Development	101	
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Other Defense-Engineering Development	50	
	THOMSON CONSUMER ELECTRONICS	New York	USAF	RDTE/Other Defense-Engineering Development	125	
	TRICOR SYSTEMS INC	Illinois	ARMY	RDTE/Other Defense-Engineering Development	117	
					46	

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD94 (CONTINUED)						
	TRW INC	California	USAF	RDTE/Other Defense-Engineering Development	\$ 41,898	
		Mass	USAF	RDTE/Other Defense-Engineering Development	486-	
	CONTRACTOR TOTAL				41,412	
UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Other Defense-Engineering Development		8,109	
UNIVERSITY OF CONNECTICUT	Conn	NAVY	RDTE/Other Defense-Engineering Development		62	
UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Other Defense-Engineering Development		48	
VIRGINIA POLYTECHNIC INST/ST UNI	Virginia	NAVY	RDTE/Other Defense-Engineering Development		60	
VITRO CORPORATION	Maryland	NAVY	RDTE/Other Defense-Engineering Development		35	
	Penn	NAVY	RDTE/Other Defense-Engineering Development		415	
CONTRACTOR TOTAL					450	
VREULS RESEARCH CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development		119	
WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Engineering Development		127	
WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Other Defense-Engineering Development		31	
XEROX CORPORATION	California	ARMY	RDTE/Other Defense-Engineering Development		1,030	
R&D TOTAL					230,681	
AD95 A A I CORPORATION	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev		95	
A E C DESIGN	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev		160	
AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Operational Systems Dev		50	
AEROJET ELECTRO SYSTEMS	California	USAF	RDTE/Other Defense-Operational Systems Dev		1,570	
AMERICAN SATELLITE COMPANY	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev		79	
ANALYTEK LTD	California	NAVY	RDTE/Other Defense-Operational Systems Dev		112	
ANALYTICAL SYSTEMS ENGRG CORP	Mass	USAF	RDTE/Other Defense-Operational Systems Dev		295	
APPLIED RESEARCH INC	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev		82	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD95 (CONTINUED)					
	AQUA CHEM INC	Wisconsin	ARMY	RDTE/Other Defense-Operational Systems Dev	
	ARGOSYSTEMS INC	California	USAF	RDTE/Other Defense-Operational Systems Dev	96
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	26
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	205
	BALL CORPORATION	California	USAF	RDTE/Other Defense-Operational Systems Dev	288
	BERKELEY RESEARCH ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	727
	BOEING COMPANY THE	Washington	USAF	RDTE/Other Defense-Operational Systems Dev	200
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev	132
	BRUNSWICK CORPORATION	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	193
	CACI INC	D.C.	USAF	RDTE/Other Defense-Operational Systems Dev	532
		Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	501
	CONTRACTOR TOTAL				1,033
	CACI INTERNATIONAL INC	D.C.	USAF	RDTE/Other Defense-Operational Systems Dev	244
		Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	191
	CONTRACTOR TOTAL				435
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Operational Systems Dev	616
	CAMPBELL ENGINEERING INC	Alabama	NAVY	RDTE/Other Defense-Operational Systems Dev	50
	CHAMBERLAIN MANUFACTURING CORP	Illinois	USAF	RDTE/Other Defense-Operational Systems Dev	125
	CLEMSON UNIVERSITY	S Carolina	NAVY	RDTE/Other Defense-Operational Systems Dev	278
	COCKERHAM JOHN M & ASSOCIATES	New Jersey	ARMY	RDTE/Other Defense-Operational Systems Dev	791
	COMPUTER SCIENCE CORPORATION	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	6,802
			USAF	RDTE/Other Defense-Operational Systems Dev	32
	COUNTRY TOTAL				6,834

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	--R&D DESCRIPTION--	
AD95 (CONTINUED)					
	COORS PORCELAIN COMPANY	Colorado	ARMY	RDTE/Other Defense-Operational Systems Dev	\$ 26
	DYNAMICS RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Operational Systems Dev	37
	ERDAS INC	Georgia	ARMY	RDTE/Other Defense-Operational Systems Dev	109
	ESL INCORPORATED	California	ARMY	RDTE/Other Defense-Operational Systems Dev	17,259
	FAILURE ANALYSIS ASSOCIATES	Washington	ARMY	RDTE/Other Defense-Operational Systems Dev	86
	FORD AEROSPACE COMMUNICATIONS CORP	Colorado	USAF	RDTE/Other Defense-Operational Systems Dev	654
	G R D INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	96
	GALAXY SCIENTIFIC CORP	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	678
		Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	283
	CONTRACTOR TOTAL				961
	GENERAL ELECTRIC CO	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	185
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Other Defense-Operational Systems Dev	30
	H F SCIENTIFIC INC	Florida	ARMY	RDTE/Other Defense-Operational Systems Dev	35
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Defense-Operational Systems Dev	53
	I I T RESEARCH INSTITUTE	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	239
	INFORMATION SYSTEMS NTWRKS CORP	Texas	USAF	RDTE/Other Defense-Operational Systems Dev	207
	JB SYSTEMS	California	NAVY	RDTE/Other Defense-Operational Systems Dev	49
	KETRON INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	1,100
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	75
	KNOWLEDGE SYSTEMS CONCEPTS	Kansas	USAF	RDTE/Other Defense-Operational Systems Dev	175
		New York	USAF	RDTE/Other Defense-Operational Systems Dev	1,048
		Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	291
	CONTRACTOR TOTAL				1,514
	LOCKHEED CORPORATION	New Mexico	USAF	RDTE/Other Defense-Operational Systems Dev	2,388-

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD95 (CONTINUED)					
	M/A-COM PHI INC	California	NAVY	RDTE/Other Defense-Operational Systems Dev	90
	MANAGEMENT CONSULTING & RES	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	40
	MARTIN MARIETTA CORPORATION	Colorado	NAVY	RDTE/Other Defense-Operational Systems Dev	125
		Florida	USAF	RDTE/Other Defense-Operational Systems Dev	235
		Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	195
	CONTRACTOR TOTAL				555
	MC DONNELL DOUGLAS INCO INC	Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	729
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Operational Systems Dev	399
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Other Defense-Operational Systems Dev	400
	NETWORK DYNAMICS	Mass	USAF	RDTE/Other Defense-Operational Systems Dev	244
	NEW ENGLAND STEEL TANK CO	Mass	NAVY	RDTE/Other Defense-Operational Systems Dev	29
	NORTH TEXAS STATE UNIVERSITY	Texas	USAF	RDTE/Other Defense-Operational Systems Dev	50
	ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Defense-Operational Systems Dev	1,523
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Operational Systems Dev	160
	FAR TECHNOLOGY CORPORATION	California	USAF	RDTE/Other Defense-Operational Systems Dev	232
		New York	USAF	RDTE/Other Defense-Operational Systems Dev	553
	CONTRACTOR TOTAL				785
	PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Operational Systems Dev	149
		Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	394
	CONTRACTOR TOTAL				543
	PLANNING RESEARCH CORPORATION	Hawaii	USAF	RDTE/Other Defense-Operational Systems Dev	1,629
		Nebraska	USAF	RDTE/Other Defense-Operational Systems Dev	4,508
	CONTRACTOR TOTAL				6,137

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD95 (CONTINUED)						
	QUANTICS INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	\$ 50	
	QUESTECH INC	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	396	
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	559	
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Other Defense-Operational Systems Dev	38	
		Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	302	
	CONTRACTOR TOTAL				340	
	SCIENTIFIC MGT ASSOCIATES	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	136	
	SIGNAL SCIENCE INC	California	USAF	RDTE/Other Defense-Operational Systems Dev	93	
	SIGNATRON INC	Mass	USAF	RDTE/Other Defense-Operational Systems Dev	325	
	SIMULATION TECHNOLOGIES INC	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	100	
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Defense-Operational Systems Dev	294	
		USAF	RDTE/Other Defense-Operational Systems Dev	270		
	COUNTRY TOTAL				564	
	SYSTEM DYNAMICS INC	Florida	ARMY	RDTE/Other Defense-Operational Systems Dev	50	
	SYSTEMS PLANNING CORP	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	267	
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	379	
	TAU CORPORATION	California	NAVY	RDTE/Other Defense-Operational Systems Dev	210	
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Other Defense-Operational Systems Dev	1,837	
	THIOKOL CORPORATION	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	1,229	
	UNION CARBIDE CORPORATION	Washington	NAVY	RDTE/Other Defense-Operational Systems Dev	300	
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Other Defense-Operational Systems Dev	52	
	VEDA INCORPORATED	Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	52	
	VITRO CORPORATION	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	152	
	WALLACE T H INC	Florida	USAF	RDTE/Other Defense-Operational Systems Dev	2,515	

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(AMOUNTS IN THOUSANDS)

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	75
AD95 (CONTINUED)						
	WYKO CORP	Arizona	ARMY	RDTE/Other Defense-Operational Systems Dev		56,745
	R&D TOTAL					
AD96	A E C DESIGN	Virginia	NAVY	RDTE/Other Defense-Management & Support	50	50
	A K M ASSOCIATES	California	USAF	RDTE/Other Defense-Management & Support	50	50
	A O G SYSTEMS CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	200	200
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Management & Support	50	50
	ADVANCED COMPOSITE TECHNOLOGY	Colorado	USAF	RDTE/Other Defense-Management & Support	50	50
	ADVANCED ENERGY TECH	California	USAF	RDTE/Other Defense-Management & Support	49	49
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Other Defense-Management & Support	565	565
	ADVANCED RESOURCE DEV CORP	Maryland	NAVY	RDTE/Other Defense-Management & Support	271	271
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Other Defense-Management & Support	48	48
	ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	1,618	1,618
	ADVANCED TECHNOLOGY MTLS DEL	Conn	NAVY	RDTE/Other Defense-Management & Support	78	78
	AERODYNE PRODUCTS CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	200	200
	AEROSPAT'ALE	FRANCE	USAF	RDTE/Other Defense-Management & Support	1,647	1,647
	ALESAT CORPORATION	Ohio	USAF	RDTE/Other Defense-Management & Support	49	49
	ALPHATECH INC	Mass	ARMY	RDTE/Other Defense-Management & Support	51	51
	AMERICAN ELECTRONICS INC	Mass	NAVY	RDTE/Other Defense-Management & Support	250	250
	AMERICAN RESEARCH CORP VA	VA	USAF	RDTE/Other Defense-Management & Support	147	147
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Other Defense-Management & Support	69	69
	ANALYTIC SCIENCES CORP THE	Mass	NAVY	RDTE/Other Defense-Management & Support	123	123
		Virginia	ARMY	RDTE/Other Defense-Management & Support	55	55
	CONTRACTOR TOTAL				178	

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R&D		COUNTRY	DEPT	-R&D DESCRIPTION-		(AMOUNTS IN THOUSANDS)
AD96 (CONTINUED)	ANALYTICS INCORPORATED	Ohio	USAF	RDTE/Other Defense-Management & Support	\$	300
		Virginia	USAF	RDTE/Other Defense-Management & Support		179
	CONTRACTOR TOTAL					479
ANDRULIS RESEARCH CORP	Maryland	ARMY	RDTE/Other Defense-Management & Support			235
APPLIED SCIENCES INC	Ohio	USAF	RDTE/Other Defense-Management & Support			67
AQUANAUTICS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support			50
ARROW TECH ASSOCIATES	Vermont	USAF	RDTE/Other Defense-Management & Support			50
ASTRON CORPORATION	Virginia	USAF	RDTE/Other Defense-Management & Support			49
ASTROSYSTEMS INC	Delaware	USAF	RDTE/Other Defense-Management & Support			104
A TEAM CORP	Ohio	USAF	RDTE/Other Defense-Management & Support			94
BARRON ASSOCIATES INC	Virginia	USAF	RDTE/Other Defense-Management & Support			475
BBN COMMUNICATIONS CORP	Mass	USAF	RDTE/Other Defense-Management & Support			300
BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Management & Support			481
BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Management & Support			696
BETAC CORPORATION	Virginia	USAF	RDTE/Other Defense-Management & Support			51
BIO METRIC SYSTEMS INC	Minnesota	USAF	RDTE/Other Defense-Management & Support			63
BIODYMANIC RESEARCH CORP	Texas	USAF	RDTE/Other Defense-Management & Support			98
BLANCHARD & CO	Maryland	USAF	RDTE/Other Defense-Management & Support			50
BOEING COMPANY THE	Kansas	USAF	RDTE/Other Defense-Management & Support			200
BONNEVILLE SCIENTIFIC INC	Utah	USAF	RDTE/Other Defense-Management & Support			50
C LEC PLASTICS INC	New Jersey	ARMY	RDTE/Other Defense-Management & Support			89
CACI INC	Virginia	ARMY	RDTE/Other Defense-Management & Support			655
CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Management & Support			449
CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Other Defense-Management & Support			105

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	DESCRIPTION	\$	
AD96 (CONTINUED)	CHARLES RIVER ANALYTICS INC	Mass	USAF	RDTE/Other Defense-Management & Support	\$ 182	
	CHARLES SYSTEMS CORP	Michigan	ARMY	RDTE/Other Defense-Management & Support	49	
	CHEMICAL TESTING & CONSULTING	Mass	USAF	RDTE/Other Defense-Management & Support	47	
	CHI SYSTEMS INC	Penn	ARMY	RDTE/Other Defense-Management & Support	200	
	CLEVELAND CRYSTALS INC	Ohio	USAF	RDTE/Other Defense-Management & Support	51	
	COCKERHAM JOHN M & ASSOCIATES	Alabama	ARMY	RDTE/Other Defense-Management & Support	547	
	COLLINS INTERNATIONAL SVC CO	Idaho	USAF	RDTE/Other Defense-Management & Support	433	
	COMPEX INC	Michigan	USAF	RDTE/Other Defense-Management & Support	49	
	COMPLERE INC	California	USAF	RDTE/Other Defense-Management & Support	200	
	CORIOLIS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	90	
	CREARE RESEARCH & DEVELOPMENT	N.H.	USAF	RDTE/Other Defense-Management & Support	101	
	CUSTOM EMBLEM PRODUCTS	California	USAF	RDTE/Other Defense-Management & Support	304	
	DAINA	Minnesota	USAF	RDTE/Other Defense-Management & Support	38	
	DECISION SCIENCE CONSORTIUM	Virginia	USAF	RDTE/Other Defense-Management & Support	114	
	DESILUBE TECHNOLOGY INC	Penn	USAF	RDTE/Other Defense-Management & Support	49	
	DIGITAL DISPATCH INC	Minnesota	USAF	RDTE/Other Defense-Management & Support	48	
	DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Defense-Management & Support	51	
	DOALL BALTIMORE INC	Maryland	NAVY	RDTE/Other Defense-Management & Support	38	
	DOTY SCIENTIFIC INC	S Carolina	ARMY	RDTE/Other Defense-Management & Support	50	
	DOWLAND BACH CORP	Alaska	USAF	RDTE/Other Defense-Management & Support	69	
	DREXEL UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Management & Support	90	
	DUFFY ENGINEERING	Mass	USAF	RDTE/Other Defense-Management & Support	45	
	DUNCAN TECHNOLOGIES INC	California	USAF	RDTE/Other Defense-Management & Support	47	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	130
AD96 (CONTINUED)						
	DYNA EAST CORPORATION	Penn	USAF	RDTE/Other Defense-Management & Support		
	E I C LABORATORY INC	Mass	USAF	RDTE/Other Defense-Management & Support		60
	E TEK DYNAMICS INC	California	USAF	RDTE/Other Defense-Management & Support		269
	EAGLE TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Management & Support		44
		Virginia	USAF	RDTE/Other Defense-Management & Support		49
	CONTRACTOR TOTAL					93
	EC CONSULTING CO	New York	USAF	RDTE/Other Defense-Management & Support		50
	EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other Defense-Management & Support		140
	ELECTRONIC WARFARE ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Management & Support		
	EPITAXX INC	New Jersey	ARMY	RDTE/Other Defense-Management & Support		3,128
	ESSEX CORPORATION	Florida	USAF	RDTE/Other Defense-Management & Support		47
	EVANS CHARLES & ASSOCIATES	California	USAF	RDTE/Other Defense-Management & Support		52
	EXPERT EASE SYSTEMS INC	California	USAF	RDTE/Other Defense-Management & Support		50
	FALCON MICROSYSTEMS INC	Maryland	ARMY	RDTE/Other Defense-Management & Support		476
	FERNO WASHINGTON INC	Ohio	USAF	RDTE/Other Defense-Management & Support		1,666
	FLOWDRILL CORP	Washington	USAF	RDTE/Other Defense-Management & Support		48
	FOSTER MILLER INC	Mass	USAF	RDTE/Other Defense-Management & Support		287
	G M S ENGINEERING CORPORATION	Maryland	USAF	RDTE/Other Defense-Management & Support		473
	GALAXY MICROSYSTEMS INC	Texas	ARMY	RDTE/Other Defense-Management & Support		47
	GDS TECH INC	Indiana	NAVY	RDTE/Other Defense-Management & Support		49
	GENERAL ELECTRIC CO	Arizona	USAF	RDTE/Other Defense-Management & Support		48
	GENERAL ENG & SYS ANALYSIS CO	Maryland	USAF	RDTE/Other Defense-Management & Support		600
	GENERAL IMAGING CORP	Florida	USAF	RDTE/Other Defense-Management & Support		50
						610

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	GINER INC	Mass	ARMY	RDTE/Other Defense-Management & Support	50
	HEWLETT PACKARD COMPANY	Penn	NAVY	RDTE/Other Defense-Management & Support	100
	HOWELL TOOL & FABRICATING	Michigan	ARMY	RDTE/Other Defense-Management & Support	64
	HUMAN MACHINE INTERFACES INC	Tennessee	USAF	RDTE/Other Defense-Management & Support	50
	HUMAN RSRCS RES ORGANIZATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	135
	I A P RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Management & Support	49
	I I T RESEARCH INSTITUTE	Maryland	USAF	RDTE/Other Defense-Management & Support	702
		New York	USAF	RDTE/Other Defense-Management & Support	225
	CONTRACTOR TOTAL				927
	IMPLANT SCIENCES CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	43
	INERTIA SWITCH INC	D.C.	NAVY	RDTE/Other Defense-Management & Support	470
	INFORMATION NETWORK SYSTEMS	Penn	NAVY	RDTE/Other Defense-Management & Support	56
	INSTITUTE FOR DEF ANALYSES	Virginia	ARMY	RDTE/Other Defense-Management & Support	42,811
	INTELLIGENT SYSTEMS DESIGN	Washington	USAF	RDTE/Other Defense-Management & Support	50
	INTERMETRICS INC	California	USAF	RDTE/Other Defense-Management & Support	1,666
	INTERNATIONAL SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	65
	IRVINE TECHNOLOGY GROUP INC	California	USAF	RDTE/Other Defense-Management & Support	68
	KAHN HARRY J ASSOCIATES INC	New York	NAVY	RDTE/Other Defense-Management & Support	225
	KAMBEA INDUSTRIES	California	USAF	RDTE/Other Defense-Management & Support	50
	KD COMPONENTS INC	California	ARMY	RDTE/Other Defense-Management & Support	43
	KETRON INC	Penn	USAF	RDTE/Other Defense-Management & Support	46
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Management & Support	168
	KLEIN ASSOCIATES INC	Ohio	USAF	RDTE/Other Defense-Management & Support	58

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD96 (CONTINUED)						
	KUIPERS & ASSOCS	Michigan	USAF	RDTE/Other Defense-Management & Support		183
	LEHIGH VALLEY COMPUTER SVCS	Penn	USAF	RDTE/Other Defense-Management & Support		48
	LIGHTWAVE ELECTRONICS CORP	California	ARMY	RDTE/Other Defense-Management & Support		47
	LITHIUM ENERGY ASSOC INC	Mass	USAF	RDTE/Other Defense-Management & Support		0
	LOCUS INC	Virginia	NAVY	RDTE/Other Defense-Management & Support		118
	LUBRICATING SPC COMPANY	California	USAF	RDTE/Other Defense-Management & Support		185
	M/A COM LINKABIT INC	Virginia	ARMY	RDTE/Other Defense-Management & Support		1,955
	MACH I INC	Penn	NAVY	RDTE/Other Defense-Management & Support		53
	MARK RESOURCES INC	California	ARMY	RDTE/Other Defense-Management & Support		216
	MARKO MATERIALS INC	Mass	USAF	RDTE/Other Defense-Management & Support		49
	MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Other Defense-Management & Support		388
	MASSACHUSETTS UNIVERSITY OF	Mass	NAVY	RDTE/Other Defense-Management & Support		200
	MATLS RES & COMPUTER	Arizona	NAVY	RDTE/Other Defense-Management & Support		180
	MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Other Defense-Management & Support		745
	MC DONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support		200
	NIELSEN ENGINEERING & RES	Missouri	USAF	RDTE/Other Defense-Management & Support		379
	CONTRACTOR TOTAL					579
	MDA ENGINEERING	Texas	USAF	RDTE/Other Defense-Management & Support		501
	MOLECULAR TECH INC	Mass	USAF	RDTE/Other Defense-Management & Support		49
	NATIONAL SECURITY ANALYST INC	Virginia	USAF	RDTE/Other Defense-Management & Support		44
	NESTOR INC	Rhode Isld	USAF	RDTE/Other Defense-Management & Support		40
	NIAGARA SCIENTIFIC INC	New York	USAF	RDTE/Other Defense-Management & Support		26-
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Defense-Management & Support		272

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	NORTH AMERICAN DYNAMICS	California	USAF	RDTE/Other Defense-Management & Support	50
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Management & Support	88
	NTI INC	Ohio	USAF	RDTE/Other Defense-Management & Support	59
	OPTIMIZATION TECHNOLOGY INC	Alabama	NAVY	RDTE/Other Defense-Management & Support	49
	ORBITAL TECHNOLOGIES CO	Wisconsin	USAF	RDTE/Other Defense-Management & Support	79
	ORD INC	N.H.	USAF	RDTE/Other Defense-Management & Support	480
	ORTEL CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	50
	P D A ENGINEERING	California	NAVY	RDTE/Other Defense-Management & Support	49
	PACER SYSTEMS INC	Mass	USAF	RDTE/Other Defense-Management & Support	240
	PHASEX CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	487
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	50
	PHYSICAL RESEARCH INC	California	NAVY	RDTE/Other Defense-Management & Support	229
	PHYSICAL SCIENCES INC	Mass	NAVY USAF	RDTE/Other Defense-Management & Support RDTE/Other Defense-Management & Support	50 400
	COUNTRY TOTAL				450
	PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Management & Support	286
	PLANNING RESEARCH CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	1,380
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other Defense-Management & Support	50
	PROG DEV CORP OF SCARSDALE INC	New York	USAF	RDTE/Other Defense-Management & Support	49
	PROGRESSIVE LRNG UNVSL MGMT	Maryland	USAF	RDTE/Other Defense-Management & Support	50
	RAND CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	26,079
	RASOR ASSOCIATES INC	California	USAF	RDTE/Other Defense-Management & Support	94
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Other Defense-Management & Support	26

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
S TRON	California	USAF	RDTE/Other Defense-Management & Support		250
SAM TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Management & Support		350
SAN DIEGO SEMICONDUCTORS INC	California	USAF	RDTE/Other Defense-Management & Support		122
SCHMIDT INSTRUMENTS	Texas	USAF	RDTE/Other Defense-Management & Support		50
SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Other Defense-Management & Support		48
SCIENCE APPLICATIONS INTL CORP	California	ARMY NAVY USAF	RDTE/Other Defense-Management & Support RDTE/Other Defense-Management & Support RDTE/Other Defense-Management & Support		497 288 410
COUNTRY TOTAL					
	New York	USAF	RDTE/Other Defense-Management & Support		348
CONTRACTOR TOTAL					
SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Other Defense-Management & Support		1,543
SEMCOR INC	New Jersey	NAVY	RDTE/Other Defense-Management & Support		64
SERVIS DAVID A INC	Ohio	USAF	RDTE/Other Defense-Management & Support		575
SILHOUETTE TECHNOLOGY INC	New Jersey	USAF	RDTE/Other Defense-Management & Support		160
SIMULA INC	Arizona	USAF	RDTE/Other Defense-Management & Support		50
SOHAR INCORPORATED	California	USAF	RDTE/Other Defense-Management & Support		99
SOL TELECOMMUNICATION SERVICE	Virginia	ARMY	RDTE/Other Defense-Management & Support		178
SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Management & Support		298
SOUTHERN BIOTECHNOLOGY ASSOC	Alabama	ARMY	RDTE/Other Defense-Management & Support		648
SPARTA INC	California	USAF	RDTE/Other Defense-Management & Support		424
SPEECH SYSTEMS INC	California	ARMY	RDTE/Other Defense-Management & Support		320
SPERRY CORPORATION	Penn	NAVY	RDTE/Other Defense-Management & Support		49
SPIRE CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support		90
					498

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD96 (CONTINUED)						
	SPRINGBORN LABORATORIES INC	Conn	NAVY	RDTE/Other Defense-Management & Support	\$	60
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Defense-Management & Support		39
		Florida	USAF	RDTE/Other Defense-Management & Support		165
	CONTRACTOR TOTAL					204
	SRS TECHNOLOGIES	Alabama	NAVY	RDTE/Other Defense-Management & Support		214
		California	USAF	RDTE/Other Defense-Management & Support		8.
	CONTRACTOR TOTAL					296
	STANFORD LEELAND JUNIOR UNIV	California	NAVY	RDTE/Other Defense-Management & Support		1,162
	SUMMIT ANALYTICAL SCIENCES INC	Colorado	USAF	RDTE/Other Defense-Management & Support		568
	SYRACUSE RESEARCH CORP	New York	USAF	RDTE/Other Defense-Management & Support		51
	SYSCON CORPORATION	D.C.	NAVY	RDTE/Other Defense-Management & Support		707
		Virginia	NAVY	RDTE/Other Defense-Management & Support		3,785
	CONTRACTOR TOTAL					4,492
	SYSTEMS & TECHNOLOGY RESEARCH	Virginia	USAF	RDTE/Other Defense-Management & Support		50
	SYSTEMS CONTROL TECHNOLOGY	California	USAF	RDTE/Other Defense-Management & Support		183
	SYSTRAN CORP	Ohio	USAF	RDTE/Other Defense-Management & Support		253
	TACAN CORPORATION	California	USAF	RDTE/Other Defense-Management & Support		400
	TECHNOCHEM CO	N Carolina	USAF	RDTE/Other Defense-Management & Support		400
	TECHNOLOGY DEVELOPMENT ASSOC'S	Colorado	USAF	RDTE/Other Defense-Management & Support		400
	TECHNOLOGY SYSTEMS INC	Maine	USAF	RDTE/Other Defense-Management & Support		151
	TEXAS RESEARCH INSTITUTE INC	Texas	NAVY	RDTE/Other Defense-Management & Support		188
	TINI ALLOY COMPANY	California	USAF	RDTE/Other Defense-Management & Support		50
	TITAN CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support		259

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AD96	(CONTINUED)					
TRANS AMERICAN IMMUNOLOGY INC	Mass	ARMY	RDTE/Other Defense-Management & Support		119	
TUSKEGEE RESEARCH INSTITUTE	N Carolina	USAF	RDTE/Other Defense-Management & Support		42	
TXS INC	Texas	USAF	RDTE/Other Defense-Management & Support		50	
UNISYS CORPORATION	Minnesota	USAF	RDTE/Other Defense-Management & Support		229	
UNIVERSAL ENERGY SYSTEMS INC	Ohio	NAVY	RDTE/Other Defense-Management & Support		201	
		USAF	RDTE/Other Defense-Management & Support		181	
		COUNTRY TOTAL			382	
UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Defense-Management & Support		795	
UNIVERSITY OF FLORIDA	Florida	NAVY	RDTE/Other Defense-Management & Support		139	
UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Other Defense-Management & Support		140	
UNIVERSITY RES ENGINEERS ASSOC	Mass	NAVY	RDTE/Other Defense-Management & Support		50	
VISTA RESEARCH	Arizona	USAF	RDTE/Other Defense-Management & Support		49	
VREULS RESEARCH CORPORATION	D.C.	ARMY	RDTE/Other Defense-Management & Support		474	
WINDROCK ASSOC	Tennessee	NAVY	RDTE/Other Defense-Management & Support		50	
ZEROONE SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Management & Support		466	
R&D TOTAL					123,187	
AE21	NORTHWESTERN UNIVERSITY	Illinois	USAF	RDTE/Product or Srvc Improvement-Basic Res	91	
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Product or Srvc Improvement-Basic Res	225	
R&D TOTAL					316	
AE26	DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Product or Srvc Improvement-Mgmt & Su	892	
AE32	LOCKHEED CORPORATION	California	USAF	RDTE/Manufacturing Technology-Exploratory	90	
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Manufacturing Technology-Exploratory	53	
R&D TOTAL					143	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-
AE33	METALWORKING TECHNOLOGY INC	Penn	NAVY	RDTE/Manufacturing Technology-Advanced Dev
AE34	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Manufacturing Technology-Engr Develop
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Manufacturing Technology-Engr Develop
R&D TOTAL				159
AE35	ACUREX CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D
	APPLIED SOLAR ENERGY CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D
	BOEING COMPANY THE	Kansas	USAF	RDTE/Manufacturing Technology-Op Systems D
		Penn	USAF	RDTE/Manufacturing Technology-Op Systems D
	CONTRACTOR TOTAL			692
	BRUNSWICK CORPORATION	Virginia	USAF	RDTE/Manufacturing Technology-Op Systems D
	CINCINNATI MILACRON MKTG CO	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D
	CLEMSON UNIVERSITY	S Carolina	DLA	RDTE/Manufacturing Technology-Op Systems D
	DRAVO CORPORATION	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D
	EAGLE PITCHER INDUSTRIES INC	Missouri	USAF	RDTE/Manufacturing Technology-Op Systems D
	EXTRUDE HONE CORPORATION	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D
	FASHION INST OF TECHNOLOGY	New York	DLA	RDTE/Manufacturing Technology-Op Systems D
	GENERAL ATOMICS	California	USAF	RDTE/Manufacturing Technology-Op Systems D
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D
	GENERAL ELECTRIC CO	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D
	GEORGIA TECH RESEARCH INST	Georgia	DLA	RDTE/Manufacturing Technology-Op Systems D
	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Manufacturing Technology-Op Systems D
	HONEYWELL INC	Minnesota	USAF	RDTE/Manufacturing Technology-Op Systems D
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Manufacturing Technology-Op Systems D
	INDUSTRIAL TECHNOLOGY INSTITUTE	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D
	LOCKHEED CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D
				1,206
				128
				1,700
				1,041
				8,783
				104
				134
				194
				8,440
				29-
				9,400
				1,384
				520
				421
				3,430
				97
				3,033

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION	\$	
AE35 (CONTINUED)						
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Manufacturing Technology-Op Systems D	\$	318
		Florida	USAF	RDTE/Manufacturing Technology-Op Systems D		2,000
	CONTRACTOR TOTAL					2,318
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Manufacturing Technology-Op Systems D		1,915
	MECHANICAL TECHNOLOGY INC	New York	ARMY USAF	RDTE/Manufacturing Technology-Op Systems D		177
				RDTE/Manufacturing Technology-Op Systems D		484
	COUNTRY TOTAL					661
	METCUT RESEARCH ASSOCIATES	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D		100
	NATIONAL SEMICONDUCTOR CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D		550
	NORTHROP CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D		8,667
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D		70
	PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Manufacturing Technology-Op Systems D		522
	R D & D CORP	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D		61
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D		3,500
	ROHR INDUSTRIES INC	California	USAF	RDTE/Manufacturing Technology-Op Systems D		59
	SCIENCE APPLICATIONS INT'L CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D		812
	SETCO INDUSTRIES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D		130
	SHULTZ STEEL CO INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D		719
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D		2,218
	SRI INTERNATIONAL	California	DLA	RDTE/Manufacturing Technology-Op Systems D		940
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D		4,664
	SYSTRAN CORP	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D		35
	TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D		885

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AE35 (CONTINUED)					
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	\$ 13,317
	TEXAS INSTRUMENTS WESTNGHSE JV	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	1,490
	TRACOR AEROSPACE INC	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	115
	TRACOR APPLIED SCIENCES INC	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	738
	TRACOR INSTRUMENTS AUSTIN INC	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	57
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Manufacturing Technology-Op Systems D	600
		Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	1,800
	CONTRACTOR TOTAL				
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	2,808
	UNIVERSITY OF CONNECTICUT	Conn	USAF	RDTE/Manufacturing Technology-Op Systems D	408
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	435
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	200
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Manufacturing Technology-Op Systems D	4,040
		Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	1,535
	CONTRACTOR TOTAL				
	R&D TOTAL				
AE36	SYSCON CORPORATION	Alabama	NAVY	RDTE/Manufacturing Technology-Mgmt & Suppo	80
		D.C.	NAVY	RDTE/Manufacturing Technology-Mgmt & Suppo	1,698
	CONTRACTOR TOTAL				
	AE91	UNIVERSITY OF MICHIGAN	ARMY	RDTE/Other Econ Growth&Productivity-Basic	56
	AE92	WEFA INC	ARMY	RDTE/Other Econ Growth&Productivity-Explor	174
	AF11	HARVARD UNIVERSITY	ARMY	RDTE/Education-Basic Research	44
		UNIVERSITY OF DAYTON	USAF	RDTE/Education-Basic Research	45

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(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	R&D DESCRIPTION
R&D TOTAL			
AF12 COLORADO STATE UNIVERSITY	Colorado	NAVY	RDTE/Education-Exploratory Development
SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Education-Exploratory Development
SCRIPPS CLINIC RES FOUNDATION	California	NAVY	RDTE/Education-Exploratory Development
UNIVERSITY OF NEW MEXICO	New Mexico	NAVY	RDTE/Education-Exploratory Development
R&D TOTAL			
AF15 BLACK HAWK COLLEGE DST #503	Illinois	ARMY	RDTE/Education-Operational Systems Develop
COLLEGE OF LAKE COUNTY	Illinois	ARMY	RDTE/Education-Operational Systems Develop
R&D TOTAL			
AG43 PHOTO METRIC INC	Mass	NAVY	RDTE/Energy - Wind - Advanced Development
AG53 INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Energy - Nuclear - Advanced Developme
AG61 GEO CENTERS INC	Mass	USAF	RDTE/Energy - Petroleum - Basic Research
AG62 CATHOLIC UNIVERSITY OF AMERICA	Virginia	NAVY	RDTE/Energy - Petroleum - Exploratory Deve
AG91 ELTECH RESEARCH CORP	Ohio	NAVY	RDTE/Other Energy - Basic Research
AG92 HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Other Energy - Exploratory Developmen
SRI INTERNATIONAL	California	NAVY	RDTE/Other Energy - Exploratory Developmen
TRW INC	California	NAVY	RDTE/Other Energy - Exploratory Developmen
R&D TOTAL			
AH11 INSTITUTE OF WILDLIFE TOX	Washington	NAVY	RDTE/Pollution Cntl & Abatement-Basic Rese
AH12 P E I ASSOCIATES INC	Ohio	ARMY	RDTE/Pollution Cntl & Abatement-Explorator
WESTON ROY F INC	Penn	ARMY	RDTE/Pollution Cntl & Abatement-Explorator
R&D TOTAL			
AH14 INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Pollution Cntl & Abatement-Engineerin
RADIAN CORPORATION	Texas	USAF	RDTE/Pollution Cntl & Abatement-Engineerin

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$	
	R&D TOTAL					331
AH16	HELIUMP CORP	Ohio	USAF	RDTE/Pollution Cntl & Abatement-Mgmt & Sup	50	
	PRECISION COMBUSTION INC	Conn	USAF	RDTE/Pollution Cntl & Abatement-Mgmt & Sup	56	
	R&D TOTAL				106	
AH21	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Air Pollution-Basic Research	1,074	
AH26	E I C LABORATORY INC	Mass	USAF	RDTE/Air Pollution-Management & Support	50	
	FOSTER MILLER INC	Mass	USAF	RDTE/Air Pollution-Management & Support	55	
	METROLASER	California	USAF	RDTE/Air Pollution-Management & Support	50	
	SIGMA RESEARCH INC	Mass	USAF	RDTE/Air Pollution-Management & Support	208	
	R&D TOTAL				363	
AH31	CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Water Pollution-Basic Research	45	
	MOREHOUSE COLLEGE	Georgia	ARMY	RDTE/Water Pollution-Basic Research	40	
	R&D TOTAL				85	
AH32	LOUISIANA STATE UNIVERSITY	Louisiana	USAF	RDTE/Water Pollution-Exploratory Developme	156	
	NORTH DAKOTA ST UNIVER ALUMNI	N Dakota	USAF	RDTE/Water Pollution-Exploratory Developme	116	
	R&D TOTAL				272	
AH36	STATE OF NEW JERSEY DEPT OF E	New Jersey	ARMY	RDTE/Water Pollution-Management & Support	32	
AH42	UNIVERSITY OF DAYTON	Ohio	ARMY	RDTE/Noise Pollution-Exploratory Developme	99	
AH91	EXCOSER S C	BELGIUM	ARMY	RDTE/Other Environmental Protection-Basic	31	
AH92	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Other Environmental Protection-Explor	170	
AH94	TETRA TECH INC	California	USAF	RDTE/Other Environmental Protection-Engr D	4,620	
AH96	A R E MANUFACTURING CO INC	Florida	NAVY	RDTE/Other Environmental Protection-Mgmt &	495	
	APPLIED RESEARCH ASSOC INC	N Carolina	USAF	RDTE/Other Environmental Protection-Mgmt &	265	
	R&D TOTAL				760	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION
AJII A T & T TECHNOLOGIES INC	N Carolina	USAF	RDTE/Physical Sciences	- Basic Research
ADVANCED COMPOSITE TECHNOLOGY	Colorado	USAF	RDTE/Physical Sciences	- Basic Research
ADVANCED ENG DESIGN & RESEARCH	Maryland	USAF	RDTE/Physical Sciences	- Basic Research
AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences	- Basic Research
AEROJET ELECTRO SYSTEMS	California	USAF	RDTE/Physical Sciences	- Basic Research
AEROMETRICS INC	California	USAF	RDTE/Physical Sciences	- Basic Research
AIRSPACE TECHNOLOGY CORP	California	USAF	RDTE/Physical Sciences	- Basic Research
ALPHATECH INC	Mass	USAF	RDTE/Physical Sciences	- Basic Research
AMERICAN SCIENCE & ENGINEERING	Mass	USAF	RDTE/Physical Sciences	- Basic Research
AMPTEK INC	Mass	USAF	RDTE/Physical Sciences	- Basic Research
AMRON CORPORATION	Virginia	NAVY	RDTE/Physical Sciences	- Basic Research
ANALYSIS & COMPUTER SYSTEMS	Mass	USAF	RDTE/Physical Sciences	- Basic Research
APPLIED MCRWAVE PLASMA CONCEPTS	California	USAF	RDTE/Physical Sciences	- Basic Research
APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Physical Sciences	- Basic Research
ARCO POWER TECHNOLOGY	D.C.	USAF	RDTE/Physical Sciences	- Basic Research
ARIZONA STATE UNIVERSITY	Arizona	USAF	RDTE/Physical Sciences	- Basic Research
ATLANTIC AEROSPACE ELECTRONICS	Maryland	USAF	RDTE/Physical Sciences	- Basic Research
AWARE INC	Mass	USAF	RDTE/Physical Sciences	- Basic Research
BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Physical Sciences	- Basic Research
BELL TELEPHONE LABS INC	New Jersey	NAVY	RDTE/Physical Sciences	- Basic Research
BERKELEY RESEARCH ASSOCIATES	Virginia	NAVY	RDTE/Physical Sciences	- Basic Research
BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences	- Basic Research
BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences	- Basic Research
BOSTON UNIVERSITY TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences	- Basic Research
BROADCOM INC	New Jersey	USAF	RDTE/Physical Sciences	- Basic Research

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AJ11 (CONTINUED)						
	BROWN UNIVERSITY	Rhode Island	USAF	RDTE/Physical Sciences - Basic Research	\$ 603	
	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Physical Sciences - Basic Research	1,033	
	CALIFORNIA URBAN INDIAN HEALTH	California	USAF	RDTE/Physical Sciences - Basic Research	82	
	CALSPAN CORPORATION	New York	USAF	RDTE/Physical Sciences - Basic Research	75	
	CAMBRIDGE RES INSTRUMENTATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	151	
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Physical Sciences - Basic Research	315	
	CANETICS INC	California	USAF	RDTE/Physical Sciences - Basic Research	52	
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Physical Sciences - Basic Research	818	
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	40	
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	1,429	
	CERAMPHYSICS INC	Ohio	USAF	RDTE/Physical Sciences - Basic Research	80	
	CITY UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	764	
	CLARK ATLANTA UNIVERSITY	Georgia	USAF	RDTE/Physical Sciences - Basic Research	74	
	CLARKSON UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	193	
	CLEMSON UNIVERSITY	S Carolina	USAF	RDTE/Physical Sciences - Basic Research	50	
	COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Physical Sciences - Basic Research	664	
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	713	
	COMPUTATIONAL MECHANICS CO	Texas	USAF	RDTE/Physical Sciences - Basic Research	258	
	COMPUTER SCIENCE INNOVATIONS	Alabama	USAF	RDTE/Physical Sciences - Basic Research	87	
	CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Physical Sciences - Basic Research	39	
	CORNELL UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	1,670	
	CORP FOR STUDIES & ANALYSIS	California	USAF	RDTE/Physical Sciences - Basic Research	64	
	CREATIVE OPTICS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	79	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	CYBER COM CORP	California	USAF	RDTE/Physical Sciences - Basic Research	\$ 50
	DARTMOUTH COLLEGE	N. H.	USAF	RDTE/Physical Sciences - Basic Research	175
	DELFT UNIV OF TECHNOLOGY	NETHERLAND	USAF	RDTE/Physical Sciences - Basic Research	34
	DOVE ELECTRONICS INC	New York	USAF	RDTE/Physical Sciences - Basic Research	55
	DOW CHEMICAL COMPANY THE	Michigan	USAF	RDTE/Physical Sciences - Basic Research	414
	E E G SYSTEMS LABORATORY INC	California	USAF	RDTE/Physical Sciences - Basic Research	151
	E I C LABORATORY INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	150
	EAGLE PITCHER INDUSTRIES INC	Oklahoma	USAF	RDTE/Physical Sciences - Basic Research	86-
	ELECTRO OPTEK CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	57
	EMMANUEL COLLEGE	Mass	USAF	RDTE/Physical Sciences - Basic Research	766
	ENDOCHRONICS	Washington	USAF	RDTE/Physical Sciences - Basic Research	47
	ENGINEERING & ECONOMICS RES	Virginia	USAF	RDTE/Physical Sciences - Basic Research	187
	ENTEK INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	49
	EPITAXX INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	150
	FAIRCHILD INDUSTRIES INC	Maryland	USAF	RDTE/Physical Sciences - Basic Research	416
	FALCON COMMUNICATIONS CORP	Colorado	USAF	RDTE/Physical Sciences - Basic Research	260
	FLORIDA A & M UNIVERSITY	Florida	USAF	RDTE/Physical Sciences - Basic Research	337
	G T DEVICES INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	146
	GENERAL ATOMICS	California	NAVY USAF	RDTE/Physical Sciences - Basic Research	60
				RDTE/Physical Sciences - Basic Research	460
	COUNTRY TOTAL				520
	GENERAL ELECTRIC CO	New York	USAF	RDTE/Physical Sciences - Basic Research	1,538
		Ohio	USAF	RDTE/Physical Sciences - Basic Research	128

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	TOTAL
CONTRACTOR TOTAL						
	GENERAL PLASMA ASSOCIATES INC	Conn	USAF	RDTE/Physical Sciences - Basic Research	50	
	GEO CENTERS INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	546	
		Mass	NAVY	RDTE/Physical Sciences - Basic Research	200	
	CONTRACTOR TOTAL					
	GEORGIA TECH RESEARCH INST GS INC	Georgia	USAF	RDTE/Physical Sciences - Basic Research	381	
	HARRIS CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	43	
	HARVARD UNIVERSITY	Florida	USAF	RDTE/Physical Sciences - Basic Research	190	
	HONEYWELL INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	143	
		Arizona	NAVY	RDTE/Physical Sciences - Basic Research	79	
		Minnesota	USAF	RDTE/Physical Sciences - Basic Research	254	
	CONTRACTOR TOTAL					
	HOWARD UNIVERSITY	D.C.	USAF	RDTE/Physical Sciences - Basic Research	299	
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Physical Sciences - Basic Research	289	
			USAF	RDTE/Physical Sciences - Basic Research	950	
	COUNTRY TOTAL					
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Physical Sciences - Basic Research	449	
	INNOTECH ENTERPRISES	New York	USAF	RDTE/Physical Sciences - Basic Research	48	
	INSTITUTE FOR SYSTEMS ANALYSIS	Maryland	USAF	RDTE/Physical Sciences - Basic Research	111	
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Basic Research	40	
	INTERSPEC INC	Penn	USAF	RDTE/Physical Sciences - Basic Research	48	
	JAMIESON SCIENCE & ENGINEERING	Maryland	USAF	RDTE/Physical Sciences - Basic Research	108	
	JAYCOR	California	USAF	RDTE/Physical Sciences - Basic Research	72	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$
CONTRACTOR TOTAL					
	JOHNS HOPKINS UNIVERSITY	Maryland	USAF	RDTE/Physical Sciences - Basic Research	927
	KOPIN CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	101
	KTAADN INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	150
	LA JOLLA INSTITUTE	California	NAVY	RDTE/Physical Sciences - Basic Research	68
	LASERTRON INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	219
	LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Physical Sciences - Basic Research	200
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Physical Sciences - Basic Research	178
	LOWELL OBSERVATORY	Arizona	USAF	RDTE/Physical Sciences - Basic Research	220
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Physical Sciences - Basic Research	40
	MASSACHSETTS INST OF TCHNOLOGY	Mass	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	480 50
COUNTRY TOTAL					
	MASSACHUSETTS UNIVERSITY OF MATERIALS SCIENCES CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research	2,471
	MC DONNELL DOUGLAS CORPORATION	Penn	USAF	RDTE/Physical Sciences - Basic Research	2,521
CONTRACTOR TOTAL					
	MEHARRY MEDICAL COLLEGE	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	488
	MESOSCALE ENVIR SIMULATN	Virginia	USAF	RDTE/Physical Sciences - Basic Research	2,059
	METSAT INC	Colorado	USAF	RDTE/Physical Sciences - Basic Research	150
	MICHIGAN STATE UNIVERSITY	Michigan	ARMY	RDTE/Physical Sciences - Basic Research	266
					222
					448
					248
					108
					44
					75

AJ11 (CONTINUED)

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION	\$
	MINNESOTA MIN & MFG COMPANY	Minnesota	USAF	RDTE/Physical Sciences - Basic Research		100
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research		243
	N.H.	USAF	RDTE/Physical Sciences - Basic Research			271
	Virginia	USAF	RDTE/Physical Sciences - Basic Research			44
	CONTRACTOR TOTAL					558
	NATIONAL ACADEMY SCIENCES USA	D.C.	USAF	RDTE/Physical Sciences - Basic Research		1,915
	NEUROGEN LABS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		72
	NEW MEXICO STATE UNIVERSITY	New Mexico	USAF	RDTE/Physical Sciences - Basic Research		150
	NEW YORK UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research		1,105
	NIELSEN ENGINEERING & RES	California	USAF	RDTE/Physical Sciences - Basic Research		104
	NORTH CAROLINA A & T UNIV	N Carolina	USAF	RDTE/Physical Sciences - Basic Research		121
	NORTH CAROLINA CENTRAL UNIVER	N Carolina	USAF	RDTE/Physical Sciences - Basic Research		225
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research		530
	NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Physical Sciences - Basic Research		159
	NORTHWESTERN UNIVERSITY	Illinois	USAF	RDTE/Physical Sciences - Basic Research		386
	NOVA PHARMACEUTICAL CORP	California	USAF	RDTE/Physical Sciences - Basic Research		65
	NOVA UNIVERSITY INC	Florida	USAF	RDTE/Physical Sciences - Basic Research		100
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Physical Sciences - Basic Research		94
	OPTRA INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		416
	OPTRON SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		59
	ORTEL CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research		200
	P C O INC	California	USAF	RDTE/Physical Sciences - Basic Research		50
	PEDA CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research		98

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
PENNSYLVANIA STATE UNIV THE	Penn			RDTE/Physical Sciences - Basic Research	222
PHOTO METRIC INC	Mass			RDTE/Physical Sciences - Basic Research	137
PHOTON RESEARCH ASSOCIATES	Mass			RDTE/Physical Sciences - Basic Research	60
PHRAXOS RESEARCH & DEV	California			RDTE/Physical Sciences - Basic Research	74
PHYSICAL DYNAMICS INC	Washington			RDTE/Physical Sciences - Basic Research	1,012
PHYSICAL SCIENCES INC	Mass			RDTE/Physical Sciences - Basic Research	1,576
PLESSEY UK LIMITED	UNITED KINGDOM			RDTE/Physical Sciences - Basic Research	95
POLYTECHNIC UNIV OF NEW YORK	New York			RDTE/Physical Sciences - Basic Research	531
POTOMAC PHOTONICS INC	D.C.			RDTE/Physical Sciences - Basic Research	40
POWER SPECTRA INC	California			RDTE/Physical Sciences - Basic Research	50
PRINCETON SCIENTIFIC INSTRS	New Jersey			RDTE/Physical Sciences - Basic Research	155
PRINCETON UNIVERSITY	New Jersey			RDTE/Physical Sciences - Basic Research	68
				RDTE/Physical Sciences - Basic Research	359
COUNTRY TOTAL					
PURDUE UNIVERSITY	Indiana	ARMY	USAFAF	RDTE/Physical Sciences - Basic Research	427
				RDTE/Physical Sciences - Basic Research	40
COUNTRY TOTAL					
R & D ASSOCIATES	California	USAFAF		RDTE/Physical Sciences - Basic Research	379
R D P INC	Mass	USAFAF		RDTE/Physical Sciences - Basic Research	142
RANDOM APPLICATIONS INC	Colorado	USAFAF		RDTE/Physical Sciences - Basic Research	411
RENSSLEAER POLYTECHNIC INST	New York	USAFAF		RDTE/Physical Sciences - Basic Research	26
RESEARCH TRIANGLE INSTITUTE	N Carolina	USAFAF		RDTE/Physical Sciences - Basic Research	48
ROCKWELL INTERNATIONAL CORP	California	USAFAF		RDTE/Physical Sciences - Basic Research	150
S T D RESEARCH CORPORATION	California	USAFAF		RDTE/Physical Sciences - Basic Research	692
					74

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$	
AJ11 (CONTINUED)						
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	\$ 216	
		Maryland	NAVY USAF	RDTE/Physical Sciences - Basic Research	1,211	
			COUNTRY TOTAL		77	1,288
			CONTRACTOR TOTAL			1,504
	SCHWARTZ ELECTRO-OPTICS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	372	
	SCIENCE APPLICATIONS INT'L CORP	Virginia	USAF	RDTE/Physical Sciences - Basic Research	259	
	SCIENTIFIC ASSOCIATES INC	Colorado	USAF	RDTE/Physical Sciences - Basic Research	48	
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Physical Sciences - Basic Research	111	
	SELF CORP	California	USAF	RDTE/Physical Sciences - Basic Research	49	
	SOUTHEASTN CTR ELECTR ENG ED	Florida	NAVY USAF	RDTE/Physical Sciences - Basic Research	54	
			COUNTRY TOTAL		1,875	1,929
		Mass	USAF	RDTE/Physical Sciences - Basic Research	75	
			CONTRACTOR TOTAL			2,004
	SOUTHERN METHODIST UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Basic Research	255	
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Physical Sciences - Basic Research	417	
	SPACE SCIENCES CORP	New York	USAF	RDTE/Physical Sciences - Basic Research	50	
	SPARTA INC	California	USAF	RDTE/Physical Sciences - Basic Research	397	
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	1,041	
	SPECTRUM 39 LTD	Maryland	USAF	RDTE/Physical Sciences - Basic Research	95	
	SPIRE CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	249	
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Basic Research	2,084	
	ST LOUIS UNIVERSITY	Missouri	USAF	RDTE/Physical Sciences - Basic Research	70	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
	STANFORD LEELAND JUNIOR UNIV	California		RDTE/Physical Sciences - Basic Research	\$ 4,460
	STANFORD TELECOMMUNICATIONS	California	USAF	RDTE/Physical Sciences - Basic Research	277
	STATCON INC	Maryland	USAF	RDTE/Physical Sciences - Basic Research	59
	STATE UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	841
	SUPERCONDUCTOR TECHNOLOGIES	California	USAF	RDTE/Physical Sciences - Basic Research	58
	TACAN CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	616
	TECHNOLOGY & MGT SYSTEMS	Mass	USAF	RDTE/Physical Sciences - Basic Research	69
	TELEDYNE INDUSTRIES INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	633
	TEXAS A & M UNIV SYS THE	Texas	USAF	RDTE/Physical Sciences - Basic Research	320
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Physical Sciences - Basic Research	150
	THERMACORE INC	Penn	USAF	RDTE/Physical Sciences - Basic Research	80
	TRW INC	California	USAF	RDTE/Physical Sciences - Basic Research	1,082
	TUFTS UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research	60
	TUSKEGEE UNIVERSITY	Alabama	USAF	RDTE/Physical Sciences - Basic Research	146
	ULTRASYSTEMS INCORPORATED	Texas	USAF	RDTE/Physical Sciences - Basic Research	77
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Physical Sciences - Basic Research	710
	UNIVERSITY OF ARIZONA	Florida	USAF	RDTE/Physical Sciences - Basic Research	48
	CONTRACTOR TOTAL				758
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Physical Sciences - Basic Research	7,642
	UNIVERSITIES SPACE RES ASSN	Maryland	NAVY	RDTE/Physical Sciences - Basic Research	582
	UNIVERSITY OF AKRON	Ohio	USAF	RDTE/Physical Sciences - Basic Research	40
	UNIVERSITY OF ALASKA	Alaska	USAF	RDTE/Physical Sciences - Basic Research	105
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Basic Research	2,845

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$	
AJ11 (CONTINUED)						
	UNIVERSITY OF ARKANSAS	Arkansas	USAF	RDTE/Physical Sciences - Basic Research	60	
	UNIVERSITY OF CALIFORNIA	California	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	129 4,435	
		COUNTRY TOTAL			4,564	
	UNIVERSITY OF CINCINNATI	Ohio	USAF	RDTE/Physical Sciences - Basic Research	192	
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Physical Sciences - Basic Research	547	
	UNIVERSITY OF CONNECTICUT	Conn	USAF	RDTE/Physical Sciences - Basic Research	30	
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Physical Sciences - Basic Research	78	
	UNIVERSITY OF DENVER	Colorado	USAF	RDTE/Physical Sciences - Basic Research	247	
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Physical Sciences - Basic Research	672	
	UNIVERSITY OF HOUSTON SYSTEM	Texas	USAF	RDTE/Physical Sciences - Basic Research	27	
	UNIVERSITY OF ILLINOIS	Illinois	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	81 1,327	
		COUNTRY TOTAL			1,408	
	UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Basic Research	545	
	UNIVERSITY OF MARYLAND	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	108	
		Maryland	NAVY	RDTE/Physical Sciences - Basic Research	40	
	CONTRACTOR TOTAL				148	
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Physical Sciences - Basic Research	653	
	UNIVERSITY OF MINNESOTA	Minnesota	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	56 483	
		COUNTRY TOTAL			539	
	UNIVERSITY OF NEBRASKA	Nebraska	USAF	RDTE/Physical Sciences - Basic Research	173	
	UNIVERSITY OF NEVADA SYSTEM	Nevada	USAF	RDTE/Physical Sciences - Basic Research	128	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Physical Sciences - Basic Research	900
	UNIVERSITY OF NORTH CAROLINA	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	478
	UNIVERSITY OF OREGON	Oregon	USAF	RDTE/Physical Sciences - Basic Research	116
	UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Physical Sciences - Basic Research	584
	UNIVERSITY OF ROCHESTER	New York	USAF	RDTE/Physical Sciences - Basic Research	818
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Basic Research	3,202
	UNIVERSITY OF SOUTHERN MISSISS	Miss	USAF	RDTE/Physical Sciences - Basic Research	96
	UNIVERSITY OF TENNESSEE	Tennessee	USAF	RDTE/Physical Sciences - Basic Research	125
	UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Physical Sciences - Basic Research	905
	UNIVERSITY OF UTAH	Utah	USAF	RDTE/Physical Sciences - Basic Research	85
	UNIVERSITY OF VIRGINIA	Virginia	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	42 110
	COUNTRY TOTAL				152
	UNIVERSITY OF WASHINGTON	Washington	USAF	RDTE/Physical Sciences - Basic Research	164
	UNIVERSITY OF WEST FLORIDA	Florida	NAVY	RDTE/Physical Sciences - Basic Research	53
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	41 158
	COUNTRY TOTAL				199
	UNIVERSITY RES FOUNDATION	Maryland	NAVY	RDTE/Physical Sciences - Basic Research	738
	UTAH STATE UNIVERSITY	Utah	USAF	RDTE/Physical Sciences - Basic Research	337
	VANDERBILT UNIVERSITY THE	Tennessee	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	197 637
	COUNTRY TOTAL				834
	VIRGINIA PLYTCHNIC INST/ST UNI	Virginia	ARMY	RDTE/Physical Sciences - Basic Research	40

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AJ11 (CONTINUED)						
		COUNTRY TOTAL		USAF RDTE/Physical Sciences - Basic Research	\$ 592	
	VISIDYNE INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	\$ 632	
	W E A	Mass	USAF	RDTE/Physical Sciences - Basic Research	1,829	
	WAGNER DANIEL H ASSOCIATES	Virginia	USAF	RDTE/Physical Sciences - Basic Research	58	
	WALLACE T H INC	Florida	USAF	RDTE/Physical Sciences - Basic Research	44	
		Virginia	USAF	RDTE/Physical Sciences - Basic Research	131	
					350	
		CONTRACTOR TOTAL		USAF RDTE/Physical Sciences - Basic Research	481	
	WESSON INTERNATIONAL	Texas	USAF	RDTE/Physical Sciences - Basic Research	50	
	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Physical Sciences - Basic Research	930	
	WOODWARD CLYDE CONSULTANTS	California	USAF	RDTE/Physical Sciences - Basic Research	82	
	XEROX CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	46	
	YALE UNIVERSITY	Conn	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	113 155	
		COUNTRY TOTAL		USAF RDTE/Physical Sciences - Basic Research	268	
	YORK UNIVERSITY	CANADA	USAF	RDTE/Physical Sciences - Basic Research	305	
	R&D TOTAL				100,135	
AJ12	AEROCHEM RESEARCH LABORATORIES	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	53	
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	60	
	AEROMETRICS INC	California	ARMY	RDTE/Physical Sciences - Exploratory Devel	176	
	ALLOY SURFACES CO	Delaware	NAVY	RDTE/Physical Sciences - Exploratory Devel	43	
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	345	
	ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	349	
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	721	

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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$
AJ12 (CONTINUED)					
	AVCO RESEARCH LABORATORY INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	359
	AWARE INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	144
	BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Exploratory Devel	554
	BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	596
	BROWN UNIVERSITY	Rhode Isld	USAF	RDTE/Physical Sciences - Exploratory Devel	348
	CALIFORNIA URBAN INDIAN HEALTH	California	USAF	RDTE/Physical Sciences - Exploratory Devel	224
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Physical Sciences - Exploratory Devel	340
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	62
	CERAMATEC INC	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	401
	COGNITIVE SYSTEMS INC	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	1,734
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	761
	COMPUTATIONAL PHYSICS INC	Virginia	USAF	RDTE/Physical Sciences - Exploratory Devel	45
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	80
	DEXTER CORPORATION	California	USAF	RDTE/Physical Sciences - Exploratory Devel	90
	E G & G RETICON	California	USAF	RDTE/Physical Sciences - Exploratory Devel	63
	EASTMAN KODAK COMPANY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	109
	EATON CORPORATION	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	70
	ELECTROMAGNETIC SCIENCES INC	Georgia	USAF	RDTE/Physical Sciences - Exploratory Devel	206
	GALAXY MICROSYSTEMS INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	431
	GENERAL ELECTRIC CO	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	367
	HARRIS CORPORATION	Florida	USAF	RDTE/Physical Sciences - Exploratory Devel	203
	HAZELTINE CORPORATION	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	383
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Exploratory Devel	318

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)					
	IMPERIAL COLLEGE OF SCIENCE & INTEGRATED SYSTEMS INC	UNITED KINGDOM	USAF	RDTE/Physical Sciences - Exploratory Devel	40
	MAN LABS INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	35
	MASSACHUSETTS TECHNOLOGICAL LAB	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	194
	MASSACHUSETTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	407
	MASSACHUSETTS UNIVERSITY OF	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	124
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	111
	MILLIMETER WAVE TECHNOLOGY	Georgia	ARMY	RDTE/Physical Sciences - Exploratory Devel	112
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Exploratory Devel	127
		N.H.	USAF	RDTE/Physical Sciences - Exploratory Devel	200
	CONTRACTOR TOTAL				673
	NEW MEXICO STATE UNIVERSITY	New Mexico	USAF	RDTE/Physical Sciences - Exploratory Devel	873
	OHIO STATE UNIVERSITY	Ohio	NAVY USAF	RDTE/Physical Sciences - Exploratory Devel RDTE/Physical Sciences - Exploratory Devel	36 40 200
	COUNTRY TOTAL				240
	PANAMETRICS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	35
	PARKE MATHEMATICAL LABS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	80
	PHOTO METRIC INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	130
	R D P INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	291
	RADEX INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	481
	RAMOT UNIVERSITY	ISRAEL	USAF	RDTE/Physical Sciences - Exploratory Devel	37
	RAYTHEON COMPANY	Rhode Isld	USAF	RDTE/Physical Sciences - Exploratory Devel	59
	REGIS COLLEGE	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	479

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AJ12 (CONTINUED)						
	RENSELAER POLYTECHNIC INST	New York		RDTE/Physical Sciences - Exploratory Devel		50
	RESEARCH SUPPORT INSTRUMENTS	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel		55
	RICE WILLIAM MARSH UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Exploratory Devel		150
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel		200
	ROYAL NORWEIGION COUNCIL	NORWAY	USAF	RDTE/Physical Sciences - Exploratory Devel		359
	RUHR UNIVERSITAT	GERMANY, F	USAF	RDTE/Physical Sciences - Exploratory Devel		105
	S S G INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		125
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Physical Sciences - Exploratory Devel		423
	SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Physical Sciences - Exploratory Devel		89
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel		303
	SOUTHEASTN CTR ELECTR ENG ED	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		230
	SOUTHWEST SCIENCES INC	New Mexico	ARMY	RDTE/Physical Sciences - Exploratory Devel		159
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		77
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Exploratory Devel		247
	STANFORD LELAND JUNIOR UNIV	California	USAF	RDTE/Physical Sciences - Exploratory Devel		160
	SYMETRIX CORPORATION	Colorado	NAVY	RDTE/Physical Sciences - Exploratory Devel		474
	TRW INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		197
	ULTRAMET	California	USAF	RDTE/Physical Sciences - Exploratory Devel		200
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel		276
	UNIVERSITY OF ALASKA	Alaska	USAF	RDTE/Physical Sciences - Exploratory Devel		107
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Physical Sciences - Exploratory Devel		434
	UNIVERSITY OF KENT	UNITED KING	USAF	RDTE/Physical Sciences - Exploratory Devel		69
	UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		127

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)					
	UNIVERSITY OF MARYLAND	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	\$ 382
	UNIVERSITY OF NORTH CAROLINA	N Carolina	USAF	RDTE/Physical Sciences - Exploratory Devel	409
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Physical Sciences - Exploratory Devel	255
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Exploratory Devel	248
	UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Physical Sciences - Exploratory Devel	135
	UNIVERSITY OF VERMONT	Vermont	USAF	RDTE/Physical Sciences - Exploratory Devel	43
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Physical Sciences - Exploratory Devel	42
	UTAH STATE UNIVERSITY	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	14,488
	VISIDYNE INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	136
	WEIDLINGER ASSOCIATES INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	48
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	389
		New York	USAF	RDTE/Physical Sciences - Exploratory Devel	109
	CONTRACTOR TOTAL				498
	YAP ANALYTICS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	200
	R&D TOTAL				35,026
AJ13					
	ADVANCED MATERIALS CORP	Penn	USAF	RDTE/Physical Sciences - Advanced Developm	226
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	70
	ANALYTIC SCIENCES CORP THE	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	544
	ANTRO-PIX CORPORATION	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	60
	ARCO POWER TECHNOLOGY	D.C.	USAF	RDTE/Physical Sciences - Advanced Developm	201
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	716
	BALL CORPORATION	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	199
	BIOMAGNETIC TECHNOLOGIES INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	69

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ13 (CONTINUED)					
	BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Advanced Developm	94
	BRIMROSE CORP OF AMERICA	Maryland	USAF	RDTE/Physical Sciences - Advanced Developm	75
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Physical Sciences - Advanced Developm	339
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Advanced Developm	679
	CHRONOS RESEARCH LABORATORIES	California	USAF	RDTE/Physical Sciences - Advanced Developm	223
	CIM SYSTEMS INC	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	44
	COMPUTATIONAL PHYSICS INC	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	240
	CORNING INC	New York	NAVY	RDTE/Physical Sciences - Advanced Developm	145
	CRAMER H E COMPANY INC	Utah	ARMY	RDTE/Physical Sciences - Advanced Developm	105
	CULHAM LABORATORY	UNITED KINGDOM	USAF	RDTE/Physical Sciences - Advanced Developm	1,380
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	196
	DUKE UNIVERSITY	N Carolina	USAF	RDTE/Physical Sciences - Advanced Developm	2,697
	ELISRA ELECTRONIC SYSTEMS LTD	ISRAEL	USAF	RDTE/Physical Sciences - Advanced Developm	1,000
	ENGINEERING SCIENCE TECH	UNITED KINGDOM	USAF	RDTE/Physical Sciences - Advanced Developm	70
	G E C AVOIDONICS LTD	UNITED KINGDOM	USAF	RDTE/Physical Sciences - Advanced Developm	550
	GELTECH INC	Florida	USAF	RDTE/Physical Sciences - Advanced Developm	405
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Advanced Developm	165
	GEO CENTERS INC	D.C.	NAVY	RDTE/Physical Sciences - Advanced Developm	198
	GEORGIA TECH RESEARCH INST	Georgia	USAF	RDTE/Physical Sciences - Advanced Developm	108
	HARRIS CORPORATION	Florida	USAF	RDTE/Physical Sciences - Advanced Developm	217
	HYPRES INC	New York	USAF	RDTE/Physical Sciences - Advanced Developm	103
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Physical Sciences - Advanced Developm	898
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	81

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Directorate for Information
Operations and Reports

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	30-
AJ13 (CONTINUED)						
	LOCKHEED CORPORATION	Georgia	USAF	RDTE/Physical Sciences - Advanced Developm		
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Physical Sciences - Advanced Developm	45	
	MASSACHSETTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	642	
	MASSACHUSETTS UNIVERSITY OF	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	258	
	MC DONNELL DOUGLAS CORPORATION	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	860	
	METRICA INC	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	1,374	
	MINNESOTA MIN & MFG COMPANY	Minnesota	USAF	RDTE/Physical Sciences - Advanced Developm	185	
	MISSION RESEARCH CORPORATION	N.H.	USAF	RDTE/Physical Sciences - Advanced Developm	802	
	NATIONAL CENTRE TRIBOLOGY	UNITED KIN	USAF	RDTE/Physical Sciences - Advanced Developm	150	
	NORTH STAR RESEARCH INC	New Mexico	USAF	RDTE/Physical Sciences - Advanced Developm	31	
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	1,345	
	OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	673	
	OPTIVISION INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	56	
	OWENS-CORNING FIBERGLAS CORP	Ohio	NAVY	RDTE/Physical Sciences - Advanced Developm	860	
	PEMCO AEROPLEX INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	1,138	
	RMS TECHNOLOGIES INCORPORATED	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	323	
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Advanced Developm	108	
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Physical Sciences - Advanced Developm	377	
	SCIENCE APPLICATIONS INTL CORP	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	50	
	SPACE DATA CORPORATION	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm	600	
	SPACE POWER INCORPORATED	California	USAF	RDTE/Physical Sciences - Advanced Developm	112	
	SPACE TECH CORP	Colorado	USAF	RDTE/Physical Sciences - Advanced Developm	35	
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Advanced Developm	130	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AJ13 (CONTINUED)					
	STANFORD LE LAND JUNIOR UNIV	California	USAF	RDTE/Physical Sciences - Advanced Developm	330
	STATE UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Advanced Developm	314
	SYSTEMS ENGINEERING INC	Maryland	USAF	RDTE/Physical Sciences - Advanced Developm	63
	SYSTEMS INTEGRATION ENGINEER	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	1,073
	TEXAS A & M UNIV SYS THE	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	65
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Physical Sciences - Advanced Developm	549
		Texas	USAF	RDTE/Physical Sciences - Advanced Developm	79
	CONTRACTOR TOTAL				628
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm	255
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Physical Sciences - Advanced Developm	412
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Physical Sciences - Advanced Developm	53
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Advanced Developm	303
	VANDERBILT UNIVERSITY THE	Tennessee	USAF	RDTE/Physical Sciences - Advanced Developm	277
	VARIAN ASSOCIATES INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	100
	VIRGINIA PLTCHNIC INST/ST UNI	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	100
	WAYNE STATE UNIVERSITY	Michigan	USAF	RDTE/Physical Sciences - Advanced Developm	85
	WENTWORTH INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	1,927
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Physical Sciences - Advanced Developm	171
		Penn	USAF	RDTE/Physical Sciences - Advanced Developm	54
	CONTRACTOR TOTAL				225
	R&D TOTAL				28,431
AJ14	ANALYTIC SERVICES INC	Virginia	USAF	RDTE/Physical Sciences - Engineering Devel	25,264
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Engineering Devel	717

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AJ14 (CONTINUED)						
R&D TOTAL	LTV AEROSPACE & DEF CO SACHS FREEMAN ASSOCIATES INC	Texas Maryland	NAVY NAVY	RDTE/Physical Sciences - Engineering Devel RDTE/Physical Sciences - Engineering Devel	\$ 760 110	
AJ15	GALILEO ELECTRO-OPTICS CORP LITTON INDUSTRIES INC SCHAFFER W J ASSOCIATES INC SOUTHERN METHODIST UNIVERSITY SRI INTERNATIONAL UNIVERSITY OF TEXAS SYSTEM	Mass Mass Virginia Texas California Texas	NAVY USAF NAVY USAF USAF USAF	RDTE/Physical Sciences - Operational Syste RDTE/Physical Sciences - Operational Syste	102- 600 1,877 49 316 207	
R&D TOTAL	AERODYNE RESEARCH INC COMPUTER AIDED PLNNNG SCHDLNG CRYSTALLUME DIVERSIFIED ENGINEERING INC FOSTER MILLER INC GELTECH INC HIGH TECHNOLOGY CORPORATION I S I GROUP INC INTERSPEC INC KEO CONSULTANTS MASSACHUSETTS UNIVERSITY OF MAXDEM INC MAYFLOWER COMMUNICATION CORP	Mass Georgia California Virginia Mass Florida Virginia New Mexico Penn Mass Mass California Mass	USAF USAF USAF USAF USAF USAF USAF USAF USAF USAF USAF USAF USAF	RDTE/Physical Sciences - Management & Supp RDTE/Physical Sciences - Management & Supp	222 50 249 1,033 494 398 48 375 232 150 52 50 150	

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		(AMOUNTS IN THOUSANDS)		R&D DESCRIPTION	
R&D	CONTRACTOR NAME	COUNTRY	DEPT		
AJ16 (CONTINUED)					
	P K CORPORATION	Conn	USAF	RDTE/Physical Sciences - Management & Supp	\$ 61
	POTOMAC PHOTONICS INC	Maryland	USAF	RDTE/Physical Sciences - Management & Supp	255
	RAND CORPORATION	California	USAF	RDTE/Physical Sciences - Management & Supp	24,874
	SAM TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Management & Supp	521
	SCHWARTZ ELECTRO-OPTICS INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	49
	SPARTA INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	57
	TOPICAL TESTING, INC	Utah	USAF	RDTE/Physical Sciences - Management & Supp	50
	TS INFOSYSTEMS INC	Florida	USAF	RDTE/Physical Sciences - Management & Supp	208
	R&D TOTAL				29,578
AJ21	DEFENSE SYSTEMS INC	Virginia	ARMY	RDTE/Math & Computer Sciences - Basic Rese	50
	KOREA IND & DEV CORP	UNITED KING	ARMY	RDTE/Math & Computer Sciences - Basic Rese	40
	SEQUOIA ASSOCIATES INC	Virginia	ARMY	RDTE/Math & Computer Sciences - Basic Rese	26
	R&D TOTAL				116
AJ22	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Math & Computer Sciences - Explor Dev	653
AJ25	DECISION SCIENCES INC	Texas	ARMY	RDTE/Math & Computer Sciences - Cp Systems	35
AJ41	A A I CORPORATION	Maryland	USAF	RDTE/Engineering Sciences - Basic Research	55
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Engineering Sciences - Basic Research	49
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Engineering Sciences - Basic Research	50
	R&D TOTAL				154
AJ43	ADVANCED TECHNOLOGY INC	Virginia	NAVY	RDTE/Engineering Sciences - Advanced Devel	154
	IBH AUTOMATION INC	Illinois	NAVY	RDTE/Engineering Sciences - Advanced Devel	48
	TANNER RESEARCH INC	California	ARMY	RDTE/Engineering Sciences - Advanced Devel	499
	R&D TOTAL				701

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AJ61	ELECTROCHIMICA CORPORATION	California	NAVY	RDTE / Psychological Sciences - Basic Research	\$ 100	
	PULSE SCIENCES INC	California	NAVY	RDTE / Psychological Sciences - Basic Research	28-	
S TRON		California	NAVY	RDTE / Psychological Sciences - Basic Research	56	
TECHNOCHEM CO		N Carolina	NAVY	RDTE / Psychological Sciences - Basic Research	50	
R&D TOTAL					178	
AJ71	METRICA INC	Texas	USAF	RDTE / Social Sciences - Basic Research	950	
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE / Social Sciences - Basic Research	724	
		Texas	USAF	RDTE / Social Sciences - Basic Research	86	
CONTRACTOR TOTAL					810	
R&D TOTAL					1,760	
AJ74	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE / Social Sciences - Engineering Development	300	
AJ92	INRAD INC	New Jersey	NAVY	RDTE / Other Sciences - Exploratory Development	63	
	SCHAFFER W J ASSOCIATES INC	Mass	ARMY	RDTE / Other Sciences - Exploratory Development	48	
R&D TOTAL					111	
AK11	UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE / Housing - Basic Research	1,285	
AM15	SOFTECH INC	California	NAVY	RDTE / Int'l Affairs & Cooperation-Op System	600	
AN11	JACKSON HENRY M	Maryland	ARMY	RDTE / Biomedical - Basic Research	1,498	
	S R A TECHNOLOGIES INC	Maryland	ARMY	RDTE / Biomedical - Basic Research	27	
		Virginia	ARMY	RDTE / Biomedical - Basic Research	1,328	
CONTRACTOR TOTAL					1,355	
R&D TOTAL					2,853	
AN12	GEORGIA TECH RESEARCH INST	Georgia	USAF	RDTE / Biomedical - Exploratory Development	228	
	SNPE	D.C.	NAVY	RDTE / Biomedical - Exploratory Development	43	
R&D TOTAL					271	
AN15	ASSOCIATE CONSULTANTS INC	D.C.	ARMY	RDTE / Biomedical - Operational Systems Development	961	

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R&D		CONTRACTOR NAME		COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)		R&D DESCRIPTION
AN16	INTERNATIONAL INFO SYSTEMS			Virginia	USAF	\$	59	RDTE/Biomedical - Management & Support
MERIDIAN CORPORATION				Virginia	USAF		50	RDTE/Biomedical - Management & Support
ODETICS INC				California	USAF		55	RDTE/Biomedical - Management & Support
R&D TOTAL							164	
AN45	SYSTEMS RES APPLICATIONS CORP			Virginia	ARMY	RDTE/Health Services - Operational Systems	461	
AN46	FOUNDATION HEALTH CORPORATION			California	ARMY	RDTE/Health Services - Management & Suppor	639	
AN71	BEENA PURI			D.C.	ARMY	RDTE/Specialized Services - Basic Research	39	
AN72	UNIVERSITY OF CALIFORNIA			California	NAVY	RDTE/Specialized Services - Exploratory De	35	
UNIVERSITY OF WISCONSIN SYSTEM				Wisconsin	NAVY	RDTE/Specialized Services - Exploratory De	70	
R&D TOTAL							105	
AN75	SYSTEMS RES APPLICATIONS CORP			Virginia	ARMY	RDTE/Specialized Services - Operational Sy	94	
AN76	NATIONAL EMERGENCY SERVICE			Nevada	USAF	RDTE/Specialized Services - Management & S	429	
SCIENCE APPLICATIONS INTL CORP				Virginia	ARMY	RDTE/Specialized Services - Management & S	45	
R&D TOTAL							474	
AN91	AMERICAN CYANAMID COMPANY			New York	ARMY	RDTE/Other Medical - Basic Research	258-	
AMERICAN REGISTRY OF PATHOLOGY				D.C.	ARMY	RDTE/Other Medical - Basic Research	109-	
ATMOSPHERIC HEALTH SCIENCES				New Jersey	ARMY	RDTE/Other Medical - Basic Research	27-	
BATTELLE MEMORIAL INSTITUTE				Ohio	ARMY	RDTE/Other Medical - Basic Research	681-	
BAYLOR UNIVERSITY				Texas	ARMY	RDTE/Other Medical - Basic Research	163	
BETHESDA RESEARCH LABS				Maryland	ARMY	RDTE/Other Medical - Basic Research	46	
BIOSTAR MEDICAL PRODUCTS INC				Colorado	ARMY	RDTE/Other Medical - Basic Research	50	
BRANDEIS UNIVERSITY				Mass	ARMY	RDTE/Other Medical - Basic Research	133	
CARDINAL SCIENTIFIC				Maryland	ARMY	RDTE/Other Medical - Basic Research	50	
CHI SYSTEMS INC				Michigan	ARMY	RDTE/Other Medical - Basic Research	74	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION - - - - -	\$	
	COLORADO STATE UNIVERSITY	Colorado		ARMY RDTE/Other Medical - Basic Research	48	
	CORVAS INC	California		ARMY RDTE/Other Medical - Basic Research	50	
	ELECTROMAGNETIC TECHNOLOGY	Virginia		ARMY RDTE/Other Medical - Basic Research	1,092	
	ELECTROSYN CORP	New York		ARMY RDTE/Other Medical - Basic Research	50	
	ENERGY OPTICS INC	New Mexico		ARMY RDTE/Other Medical - Basic Research	179	
	ESSEX CORPORATION	Virginia		ARMY RDTE/Other Medical - Basic Research	50	
	GEORGETOWN UNIVERSITY	D.C.		ARMY RDTE/Other Medical - Basic Research	326	
	GUMBS ASSOCIATES INC	New Jersey		ARMY RDTE/Other Medical - Basic Research	49	
	HAHNEMANN UNIVERSITY	Penn		ARMY RDTE/Other Medical - Basic Research	132	
	HAWAII BIOTECHNOLOGY GP INC	Hawaii		ARMY RDTE/Other Medical - Basic Research	546	
	HEBREW UNIVERSITY OF JERUSALEM	ISRAEL		ARMY RDTE/Other Medical - Basic Research	218	
	HERNER & COMPANY INC	Maryland		ARMY RDTE/Other Medical - Basic Research	800	
	HOLOMETRIX INC	Mass		ARMY RDTE/Other Medical - Basic Research	50	
	IMATRON INC	California		ARMY RDTE/Other Medical - Basic Research	50	
	INDIANA UNIVERSITY FOUNDATION	Indiana		ARMY RDTE/Other Medical - Basic Research	38	
	ISRAEL INST FOR BIOLOGICAL RES	ISRAEL		ARMY RDTE/Other Medical - Basic Research	53	
	JOHNS HOPKINS UNIVERSITY	Maryland		ARMY RDTE/Other Medical - Basic Research	51	
	KEA INDUSTRIES	Ohio		ARMY RDTE/Other Medical - Basic Research	49	
	MARROW TECH INCORPORATED	New York		ARMY RDTE/Other Medical - Basic Research	50	
	MASSACHUSETTS UNIVERSITY OF	Mass		ARMY RDTE/Other Medical - Basic Research	629	
	MEDICAL COLLEGE OF GEORGIA	Georgia		ARMY RDTE/Other Medical - Basic Research	116	
	MOLECULAR TOXICOLOGY INC	Maryland		ARMY RDTE/Other Medical - Basic Research	50	
	MOLECULAR VACCINES INC	Maryland		ARMY RDTE/Other Medical - Basic Research	50	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
	MOREHOUSE COLLEGE	Georgia	ARMY	RDTE/Other Medical - Basic Research	164
	N AMERICAN SCIENCE ASSOCIATES	Ohio	ARMY	RDTE/Other Medical - Basic Research	49
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Medical - Basic Research	26-
	NEW JERSEY INST OF TECHNOLOGY	New Jersey	ARMY	RDTE/Other Medical - Basic Research	34-
	NEW YORK UNIVERSITY	New York	ARMY	RDTE/Other Medical - Basic Research	114
	NOBLESTAN SYSTEMS CORP	Virginia	NAVY	RDTE/Other Medical - Basic Research	52
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Medical - Basic Research	92
	NORTH TEXAS STATE UNIVERSITY	Texas	ARMY	RDTE/Other Medical - Basic Research	157
	NORTHEAST RESEARCH INSTITUTE	Conn	ARMY	RDTE/Other Medical - Basic Research	50
	OHIO UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Basic Research	149
	PARKE DAVIS WARNER LAMBERT CO	Michigan	ARMY	RDTE/Other Medical - Basic Research	29
	PHARM ECO LABORATORIES INC	California	ARMY	RDTE/Other Medical - Basic Research	279
	PHARMATEC INC	Florida	ARMY	RDTE/Other Medical - Basic Research	244
	QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Basic Research	30
	RAYEX CORP	Maryland	ARMY	RDTE/Other Medical - Basic Research	50
	RECTOR & VISITORS UNIV OF VA	Virginia	ARMY	RDTE/Other Medical - Basic Research	129
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Basic Research	85
	SALK INST FOR BIOLOGICAL STUDIES	California	ARMY	RDTE/Other Medical - Basic Research	50
	SCIENCE APPLICATIONS INT'L CORP	Virginia	ARMY	RDTE/Other Medical - Basic Research	1,574
	SCOTGEN LTE	UNITED KINGDOM	ARMY	RDTE/Other Medical - Basic Research	78
	SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Basic Research	59
	SOUTHERN ILLINOIS UNIVERSITY	Illinois	ARMY	RDTE/Other Medical - Basic Research	98
	SOUTHWEST FNDTN	Texas	ARMY	RDTE/Other Medical - Basic Research	627

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AN91 (CONTINUED)					
	STANDARD SCIENTIFICS INC	Mass	ARMY	RDTE/Other Medical - Basic Research	49
	STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Medical - Basic Research	181
	STEROIDS LTD	Illinois	ARMY	RDTE/Other Medical - Basic Research	16
	TECHNICAL RESEARCH ASSOCIATES	Utah	ARMY	RDTE/Other Medical - Basic Research	6
	TEXAS A & M UNIV SYS THE	Texas	ARMY	RDTE/Other Medical - Basic Research	217-
	UNIVAX CORP	Maryland	ARMY	RDTE/Other Medical - Basic Research	44
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	ARMY	RDTE/Other Medical - Basic Research	300
	UNIVERSAL SENSORS INC	Louisiana	ARMY	RDTE/Other Medical - Basic Research	50
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Basic Research	311
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Basic Research	1,369
	UNIVERSITY OF CHICAGO THE	Illinois	ARMY	RDTE/Other Medical - Basic Research	162
	UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Medical - Basic Research	25
	UNIVERSITY OF CONNECTICUT	Conn	ARMY	RDTE/Other Medical - Basic Research	72-
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical - Basic Research	163
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Medical - Basic Research	43
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Medical - Basic Research	436
	UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Medical - Basic Research	134
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Medical - Basic Research	342
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical - Basic Research	50
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Other Medical - Basic Research	196
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Medical - Basic Research	74
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Other Medical - Basic Research	96
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Medical - Basic Research	33

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AN91 (CONTINUED)					
UNIVERSITY OF THE PACIFIC	California	ARMY	RDTE/Other Medical - Basic Research		41-
UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Medical - Basic Research		62
UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Medical - Basic Research		168
UNIVERSITY OF WYOMING	Wyoming	ARMY	RDTE/Other Medical - Basic Research		84
VIRGINIA COMMONWEALTH UNIV	Virginia	ARMY	RDTE/Other Medical - Basic Research		478
WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Other Medical - Basic Research		169
WEIZMANN INSTITUTE THE	ISRAEL	ARMY	RDTE/Other Medical - Basic Research		135
R&D TOTAL		D.C.	RDTE/Other Medical - Exploratory Developme		201
AN92 AMERICAN INST BIOLOGCL SCIENCE	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme		131
CONTRACTOR TOTAL					
AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme		162
BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Other Medical - Exploratory Developme		200
			RDTE/Other Medical - Exploratory Developme		61
			COUNTRY TOTAL		261
BIOTEK INC	Mass	ARMY	RDTE/Other Medical - Exploratory Developme		243
BOSTON UNIVERSITY TRUSTEES OF	Mass	ARMY	RDTE/Other Medical - Exploratory Developme		98
CALSPAN CORPORATION	Penn	ARMY	RDTE/Other Medical - Exploratory Developme		283
CATHOLIC UNIVERSITY OF AMERICA	D.C.	ARMY	RDTE/Other Medical - Exploratory Developme		800-
CHILDRENS MEDICAL CENTER CORP	Mass	ARMY	RDTE/Other Medical - Exploratory Developme		120
CITY UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Medical - Exploratory Developme		40
DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme		181
E G & G MASON RESEARCH INST	Mass	ARMY	RDTE/Other Medical - Exploratory Developme		1,186

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AN92 (CONTINUED)					
	EYE RESEARCH INST RETINA FNDTN	Mass		ARMY RDTE/Other Medical - Exploratory Developme	49
	G M S ENGINEERING CORPORATION	Maryland		ARMY RDTE/Other Medical - Exploratory Developme	170
	GAMBLE JAMES N INST MED RES	Ohio		ARMY RDTE/Other Medical - Exploratory Developme	114
	GEORGIA TECH RESEARCH INST	Georgia		ARMY RDTE/Other Medical - Exploratory Developme	90
	GORGAS MEMORIAL INSTITUTE	Maryland		ARMY RDTE/Other Medical - Exploratory Developme	231
	GULF COAST RESEARCH LABORATORY	Miss		ARMY RDTE/Other Medical - Exploratory Developme	175
	HARVARD UNIVERSITY	Mass		ARMY RDTE/Other Medical - Exploratory Developme	164
	HAWAII BIOTECHNOLOGY GP INC	Hawaii		ARMY RDTE/Other Medical - Exploratory Developme	249
	HEALTH RESEARCH INC	New York		ARMY RDTE/Other Medical - Exploratory Developme	430
	I I T RESEARCH INSTITUTE	Illinois		ARMY RDTE/Other Medical - Exploratory Developme	37
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN		ARMY RDTE/Other Medical - Exploratory Developme	161
	JAYCOR	California		ARMY RDTE/Other Medical - Exploratory Developme	207
	JEFFERSON THOMAS UNIVERSITY	Penn		ARMY RDTE/Other Medical - Exploratory Developme	1,002
	JOHNS HOPKINS UNIVERSITY	Maryland		ARMY RDTE/Other Medical - Exploratory Developme	518
	LONDON SCHOOL OF HYGIENE	UNITED KIN		ARMY RDTE/Other Medical - Exploratory Developme	108
	LOUISIANA STATE UNIVERSITY	Louisiana		ARMY RDTE/Other Medical - Exploratory Developme	286
	MARSHALL UNIVERSITY	W Virginia		ARMY RDTE/Other Medical - Exploratory Developme	28
	MASSACHSETTS INST OF TCHNOLOGY	Mass		ARMY RDTE/Other Medical - Exploratory Developme	147
	MASSACHUSETTS UNIVERSITY OF	Mass		ARMY RDTE/Other Medical - Exploratory Developme	537
	MEDICAL COLLEGE OF PA	Penn		ARMY RDTE/Other Medical - Exploratory Developme	172
	MICHIGAN STATE UNIVERSITY	Michigan		ARMY RDTE/Other Medical - Exploratory Developme	29-
	MOBILITY SYSTEMS & EQP CO	California		ARMY RDTE/Other Medical - Exploratory Developme	25
	NATURAL ENVIRONMNTL RSCH COUNCI	UNITED KIN		ARMY RDTE/Other Medical - Exploratory Developme	184

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	--R&D DESCRIPTION--	\$	
AN92 (CONTINUED)						
	NEW YORK UNIVERSITY	New York	ARMY	RDTE/Other Medical - Exploratory Developme	\$	74
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme		179
	OHIO UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme		18
	OHIO WESLEYAN UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme		95
	OREGON HEALTH SCIENCES UNIV	Oregon	ARMY	RDTE/Other Medical - Exploratory Developme		114
	PENNSYLVANIA STATE UNIV THE	Penn	ARMY	RDTE/Other Medical - Exploratory Developme		80
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Medical - Exploratory Developme		78
	QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Exploratory Developme		162
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme		197
	SALK INST FOR BLIGICAL STUDIES	California	ARMY	RDTE/Other Medical - Exploratory Developme		113
	SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Exploratory Developme		452
	SLOAN KETTERING	New York	ARMY	RDTE/Other Medical - Exploratory Developme		177
	SOUTHERN ILLINOIS UNIVERSITY	Illinois	ARMY	RDTE/Other Medical - Exploratory Developme		220
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme		781
	SPELMAN COLLEGE	Georgia	ARMY	RDTE/Other Medical - Exploratory Developme		90
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Exploratory Developme		438
	STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Medical - Exploratory Developme		543
	SYNTRO CORP	California	ARMY	RDTE/Other Medical - Exploratory Developme		249
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Medical - Exploratory Developme		133
	THERMEDICS INC	Mass	ARMY	RDTE/Other Medical - Exploratory Developme		340
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme		180
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme		61
	UNIVERSITY OF ALBERTA	CANADA	ARMY	RDTE/Other Medical - Exploratory Developme		31

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	R&D DESCRIPTION
DEPT			
	UNIVERSITY OF BIRMINGHAM	UNITED KINGDOM	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF CALIFORNIA	California	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF CINCINNATI	Ohio	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF COLORADO	Colorado	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF FLORIDA	Florida	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF GEORGIA	Georgia	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF HAWAII	Hawaii	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF ILLINOIS	Illinois	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF IOWA THE	Iowa	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF KENTUCKY	Kentucky	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF MARYLAND	Maryland	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF MEDICINE	New Jersey	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF MIAMI INC	Florida	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF MICHIGAN	Michigan	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF MINNESOTA	Minnesota	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF MISSISSIPPI	Mississippi	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF NEBRASKA	Nebraska	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF NORTH CAROLINA	N Carolina	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF SAN FRANCISCO	California	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF SOUTHERN MISSISS	Mississippi	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF TEXAS SYSTEM	Texas	RDTE/Other Medical - Exploratory Developme
	UNIVERSITY OF UTAH	Utah	RDTE/Other Medical - Exploratory Developme

AN92 (CONTINUED)

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

		(AMOUNTS IN THOUSANDS)		R&D DESCRIPTION	
R&D	CONTRACTOR NAME	COUNTRY	DEPT		
AN92 (CONTINUED)					
	UNIVERSITY OF VERMONT	Vermont	ARMY	RDTE/Other Medical - Exploratory Developme	\$ 55
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	66
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical - Exploratory Developme	103
	UNIVERSITY OF WYOMING	Wyoming	ARMY	RDTE/Other Medical - Exploratory Developme	154
	VIRGINIA COMMONWEALTH UNIV	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	476
	VIRGINIA POLYTECHNIC INST/ST UNI	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	75
	WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical - Exploratory Developme	432
	WRIGHT STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	200
	YALE UNIVERSITY	Conn	ARMY	RDTE/Other Medical - Exploratory Developme	155
R&D TOTAL					19,127
AN93	AMERICAN OPTICAL CORPORATION	Mass	ARMY	RDTE/Other Medical - Advanced Developme	142
	ASH STEVENS INC	Michigan	ARMY	RDTE/Other Medical - Advanced Developme	295
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Other Medical - Advanced Developme RDTE/Other Medical - Advanced Developme	7,530 75
	COUNTRY TOTAL				7,605
	BIO RSCH FACUL & FACIL INC SBA	Maryland	ARMY	RDTE/Other Medical - Advanced Developme	500
	BIONETICS RESEARCH INC	Maryland	ARMY	RDTE/Other Medical - Advanced Developme	309
	BROWN JOHN ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Medical - Advanced Developme	359
	CASTLE CO INC	New York	ARMY	RDTE/Other Medical - Advanced Developme	1,745
	COLORADO STATE UNIVERSITY	Colorado	ARMY	RDTE/Other Medical - Advanced Developme	56
	COLUMBIA UNIVERSITY	New York	ARMY	RDTE/Other Medical - Advanced Developme	192
	DIAGNOSTIC SPECIALTIES INC	New Jersey	ARMY	RDTE/Other Medical - Advanced Developme	283
	EAGLE PITCHER INDUSTRIES INC	Kansas	ARMY	RDTE/Other Medical - Advanced Developme	227

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AN93 (CONTINUED)						
	ENGINEERING & ECONOMICS RES	Maryland	ARMY	RDTE/Other Medical - Advanced Development	\$ 101	
		Virginia	ARMY	RDTE/Other Medical - Advanced Development	198	
	CONTRACTOR TOTAL				299	
	EVAPORATED COATINGS INC	Penn	ARMY	RDTE/Other Medical - Advanced Development	132	
	FLOW LABORATORIES INC	Virginia	ARMY	RDTE/Other Medical - Advanced Development	12	
	GEOGETOWN UNIVERSITY	D.C.	ARMY	RDTE/Other Medical - Advanced Development	83	
	GUILD ASSOCIATES INC	Ohio	ARMY	RDTE/Other Medical - Advanced Development	876	
	HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Advanced Development	231	
	HAZLETON LABORATORIES AMERICA	Virginia	ARMY	RDTE/Other Medical - Advanced Development	300	
	IMATRON INC	California	ARMY	RDTE/Other Medical - Advanced Development	877	
	JAYCOR	Ohio	USAF	RDTE/Other Medical - Advanced Development	57	
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Medical - Advanced Development	235	
	KONIGSBERG INSTRUMENTS INC	California	ARMY	RDTE/Other Medical - Advanced Development	45	
	M/A-COM INC	Mass	ARMY	RDTE/Other Medical - Advanced Development	249	
	MEDICAL COLLEGE OF GEORGIA	Georgia	ARMY	RDTE/Other Medical - Advanced Development	149	
	MEPECC INTERNATIONAL INC	Georgia	ARMY	RDTE/Other Medical - Advanced Development	314	
	METTERS INDUSTRIES INC	Virginia	ARMY	RDTE/Other Medical - Advanced Development	364	
	MITRE CORPORATION	Virginia	ARMY	RDTE/Other Medical - Advanced Development	3,072	
	N E D H CORP	Mass	ARMY	RDTE/Other Medical - Advanced Development	731	
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Medical - Advanced Development	27-	
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Medical - Advanced Development	468	
	PATHOLOGY ASSOCIATES INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	119	
	PHARM ECO LABORATORIES INC	California	ARMY	RDTE/Other Medical - Advanced Development	158	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AN93 (CONTINUED)						
	PORTON INTERNATIONAL INC	UNITED KINGDOM	ARMY	RDTE/Other Medical - Advanced Development	\$ 934	
	PUBLIC HEALTH RESEARCH	New York	ARMY	RDTE/Other Medical - Advanced Development	215	
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Medical - Advanced Development	249	
	QUEST RESEARCH CORPORATION	Ohio	USAF	RDTE/Other Medical - Advanced Development	90	
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Advanced Development	1,167	
	ROHM & HAS COMPANY	Penn	ARMY	RDTE/Other Medical - Advanced Development	49	
	SALK INST FOR BIOLOGICAL STUDIES	Penn	ARMY	RDTE/Other Medical - Advanced Development	6,058	
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Other Medical - Advanced Development	256	
	SHERIKON INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	500	
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Advanced Development	2,247	
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Advanced Development	687	
	STARKS ASSOCIATES INC	New York	ARMY	RDTE/Other Medical - Advanced Development	143	
	STERIMATICS CORPORATION	Mass	ARMY	RDTE/Other Medical - Advanced Development	5,688	
	SURVIVAL TECHNOLOGY INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	45-	
	SYNTRO CORP	California	ARMY	RDTE/Other Medical - Advanced Development	249	
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Medical - Advanced Development	291	
	TECHNASSOCIATES INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	726	
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	ARMY	RDTE/Other Medical - Advanced Development	805	
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Advanced Development	26	
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Advanced Development	61	
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Other Medical - Advanced Development	589	
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical - Advanced Development	150	
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Medical - Advanced Development	262	

DEPARTMENT OF DEFENSE
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AN93 (CONTINUED)					
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical - Advanced Development	124
	UNIVERSITY OF RHODE ISLAND	Rhode Isld	ARMY	RDTE/Other Medical - Advanced Development	58
	UNIVERSITY OF SOUTH FLORIDA	Florida	ARMY	RDTE/Other Medical - Advanced Development	44
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Medical - Advanced Development	96
	UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Medical - Advanced Development	132
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical - Advanced Development	313
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Medical - Advanced Development	682
	YALE UNIVERSITY	Conn	ARMY	RDTE/Other Medical - Advanced Development	415
	R&D TOTAL				43,718
AN94 BATTELLE MEMORIAL INSTITUTE					
	DUPHAR BV	Ohio	USAF	RDTE/Other Medical - Engineering Developme	124
	I L C INDUSTRIES DELAWARE	NETHERLAND	ARMY	RDTE/Other Medical - Engineering Developme	704
	PICKER INTERNATIONAL INC	Delaware	USAF	RDTE/Other Medical - Engineering Developme	171
	ROHM & HAAS COMPANY	Ohio	ARMY	RDTE/Other Medical - Engineering Developme	199-
	SYSTEMS RESEARCH LABORATORIES	Penn	ARMY	RDTE/Other Medical - Engineering Developme	4,725
	UNIVERSITY OF COLORADO	Ohio	USAF	RDTE/Other Medical - Engineering Developme	29
	UNIVERSITY OF MARYLAND	Colorado	ARMY	RDTE/Other Medical - Engineering Developme	111
	CHILE	Maryland	ARMY	RDTE/Other Medical - Engineering Developme	682
	CONTRACTOR TOTAL	CHILE	ARMY	RDTE/Other Medical - Engineering Developme	245
	R&D TOTAL				927
AN95 I T RESEARCH INSTITUTE					
	KONIGSBERG INSTRUMENTS INC	Illinois	ARMY	RDTE/Other Medical - Operational Systems D	6,592
	MICHIGAN DEPT PUBLIC HEALTH	California	ARMY	RDTE/Other Medical - Operational Systems D	650
		Michigan	ARMY	RDTE/Other Medical - Operational Systems D	392
					3,316

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
R&D TOTAL						
AP22	MAXWELL LABORATORIES INC	California	USAF	RDTE/Natural Resources - Land - Explor Dev	410	
	WALLACE T H INC	Florida	USAF	RDTE/Natural Resources - Land - Explor Dev	389	
	WOODWARD CLYDE CONSULTANTS	California	USAF	RDTE/Natural Resources - Land - Explor Dev	177	
	R&D TOTAL				976	
AP26	ANAMET LABORATORIES INC	California	USAF	RDTE/Natural Resources - Land - Mgmt & Sup	133	
	GEOTECHNICS INC	Ohio	USAF	RDTE/Natural Resources - Land - Mgmt & Sup	90	
	R&D TOTAL				223	
AP53	SCIENCE APPLICATIONS INT'L CORP	Hawaii	NAVY	RDTE/Natural Resources-Marine-Advanced Dev	795	
AR11	BOEING COMPANY THE	Washington	USAF	RDTE/Space - Aeronautics - Basic Research	26,718	
	DAVID JARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Space - Aeronautics - Basic Research	397	
	FORD AEROSPACE COMMOTIONS CORP	California	USAF	RDTE/Space - Aeronautics - Basic Research	1,605	
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space - Aeronautics - Basic Research	27,395	
	GENERAL ELECTRIC CO	New Jersey	USAF	RDTE/Space - Aeronautics - Basic Research	1,213	
	GENERAL INDICATOR CORPORATION	Virginia	NAVY	RDTE/Space - Aeronautics - Basic Research	285	
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Space - Aeronautics - Basic Research	2,200	
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Aeronautics - Basic Research	1,603	
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Aeronautics - Basic Research	27,472	
	PHOTO METRIC INC	Mass	USAF	RDTE/Space - Aeronautics - Basic Research	137	
	PHOTON RESEARCH ASSOCIATES	California	USAF	RDTE/Space - Aeronautics - Basic Research	1,549	
	RESEARCH TRIANGLE INSTITUTE	Florida	USAF	RDTE/Space - Aeronautics - Basic Research	175	
	R&D TOTAL				90,749	
AR12	A T & T TECHNOLOGIES INC	N Carolina	USAF	RDTE/Space - Aeronautics - Exploratory Dev	100	
	EATON CORPORATION	Mass	USAF	RDTE/Space - Aeronautics - Exploratory Dev	30	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AR12 (CONTINUED)						
	HARRIS CORPORATION	Florida	USAF	RDTE/Space - Aeronautics - Exploratory Dev	\$ 200	
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Space - Aeronautics - Exploratory Dev	53	
	NEW MEXICO STATE UNIVERSITY	New Mexico	USAF	RDTE/Space - Aeronautics - Exploratory Dev	113	
	SPIRE CORPORATION	Mass	USAF	RDTE/Space - Aeronautics - Exploratory Dev	574	
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Space - Aeronautics - Exploratory Dev	26	
	R&D TOTAL				1,096	
AR13	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Space - Aeronautics - Advanced Develo	3,735	
	BARRIOS TECHNOLOGY INC	Texas	NAVY	RDTE/Space - Aeronautics - Advanced Develo	550	
	HONEYWELL INC	Penn	USAF	RDTE/Space - Aeronautics - Advanced Develo	147	
	R&D TOTAL				4,432	
AR14	SOLAREX CORP	Maryland	NAVY	RDTE/Space - Aeronautics - Engineering Dev	52-	
AR16	AMERICAN ADVANCED TECH INC	Texas	USAF	RDTE/Space - Aeronautics - Management & Su	50	
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Space - Aeronautics - Management & Su	103	
	COHERENT TECHNOLOGIES INC	Colorado	USAF	RDTE/Space - Aeronautics - Management & Su	117	
	TOYON RESEARCH CORP	California	USAF	RDTE/Space - Aeronautics - Management & Su	49	
	R&D TOTAL				319	
AR21	ASSURANCE TECHNOLOGY CORP	Mass	NAVY	RDTE/Space-Science Applications-Basic Rese	423	
	COMPUTATIONAL PHYSICS INC	Virginia	NAVY	RDTE/Space-Science Applications-Basic Rese	319	
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Space-Science Applications-Basic Rese	107	
	MC DONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Space-Science Applications-Basic Rese	405	
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Space-Science Applications-Basic Rese	200	
	SACHS FREEMAN ASSOCIATES INC	Maryland	NAVY	RDTE/Space-Science Applications-Basic Rese	197	
	R&D TOTAL				1,651	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AR22	ANALYTIX ELECTRONIC SYSTEMS	N.H.	USAF	RDTE/Space-Science Applications-Explor Dev	48
	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Space-Science Applications-Explor Dev	229
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Science Applications-Explor Dev	90
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space-Science Applications-Explor Dev	297
	STANFORD LELAND JUNIOR UNIV	California	USAF	RDTE/Space-Science Applications-Explor Dev	100
R&D TOTAL					764
AR23	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Space-Science Applications-Advanced D	105,350
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Science Applications-Advanced D	110,747
R&D TOTAL					216,097
AR24	ADVANCED TECHNOLOGY INC	California	USAF	RDTE/Space-Science Applications-Engineerin	534
	COLSA INC	Texas	ARMY	RDTE/Space-Science Applications-Engineerin	332
	GENERAL ELECTRIC CO	New Jersey	USAF	RDTE/Space-Science Applications-Engineerin	95
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Space-Science Applications-Engineerin	1,079
R&D TOTAL					2,040
AR25	AEROJET ELECTRO SYSTEMS	California	USAF	RDTE/Space-Science Applications-Op Systems	1,150
	AEROSPACE CORPORATION	California	USAF	RDTE/Space-Science Applications-Op Systems	301,430
	BOEING COMPANY THE	Washington	USAF	RDTE/Space-Science Applications-Op Systems	987
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space-Science Applications-Op Systems	973
	GENERAL ELECTRIC CO	New Jersey	USAF	RDTE/Space-Science Applications-Op Systems	6,337
	INTERNATIONAL BUS MCHS CORP	California	USAF	RDTE/Space-Science Applications-Op Systems	9,050
		Colorado	USAF	RDTE/Space-Science Applications-Op Systems	1,623
R&D TOTAL	CONTRACTOR TOTAL				10,673
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space-Science Applications-Op Systems	1,003-
	TRW INC	California	USAF	RDTE/Space-Science Applications-Op Systems	21,776
R&D TOTAL					342,323

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Directorate for Information
Operations and Reports

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(AMOUNTS IN THOUSANDS)				
R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION
AR26	FOSTER MILLER INC	Mass	USAF	RDTE/Space-Science Applications-Mgmt & Sup
AR33	DEFENSE SYSTEMS INC	Virginia	USAF	RDTE/Space-Transportation Systems-Advanced
DYNETICS INC		Alabama	USAF	RDTE/Space-Transportation Systems-Advanced
GENERAL DYNAMICS CORPORATION		California	USAF	RDTE/Space-Transportation Systems-Advanced
MARTIN MARIETTA CORPORATION		Colorado	USAF	RDTE/Space-Transportation Systems-Advanced
R&D TOTAL				2,502
AR34	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space-Transportation Systems-Engr Dev
MC DONNELL DOUGLAS CORPORATION		California	USAF	RDTE/Space-Transportation Systems-Engr Dev
SYGNETRON PROTECTION SYSTEMS		Florida	USAF	RDTE/Space-Transportation Systems-Engr Dev
UNITED TECHNOLOGIES CORP		Penn	USAF	RDTE/Space-Transportation Systems-Engr Dev
R&D TOTAL				153,213
AR35	BALL CORPORATION	Colorado	USAF	RDTE/Space-Transportation Systems-Op Syste
BOEING COMPANY THE		Washington	USAF	RDTE/Space-Transportation Systems-Op Syste
INTERNATIONAL BUS MCHS CORP		Colorado	USAF	RDTE/Space-Transportation Systems-Op Syste
Texas		USAF	RDTE/Space-Transportation Systems-Op Syste	655
CONTRACTOR TOTAL				1,155
MARTIN MARIETTA CORPORATION		Califcnria	USAF	RDTE/Space-Transportation Systems-Op Syste
ROCKWELL INTERNATIONAL CORP		Colorado	USAF	RDTE/Space-Transportation Systems-Op Syste
R&D TOTAL				157 -
AR41	MC MAHAN ELECTRO-OPTICS INC	Florida	USAF	RDTE/Space-Tracking & Data Acq-Basic Resea
NORTHWESTERN UNIVERSITY		Illinois	NAVY	RDTE/Space-Tracking & Data Acq-Basic Resea
RESEARCH & DEV LABORATORIES		California	USAF	RDTE/Space-Tracking & Data Acq-Basic Resea
R&D TOTAL				9,929

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AR43	LOCKHEED MISSILES & SPACE CO PHOTON RESEARCH ASSOCIATES	California California	USAF NAVY	RDTE/Space-Tracking & Data Acq-Advanced De RDTE/Space-Tracking & Data Acq-Advanced De	\$ 1,280- 276
R&D TOTAL					1,004-
AR44	INTERFEROMETRICS INC INTERNATIONAL BUS MCHS CORP SCIENCE APPLICATIONS INTL CORP TEXAS INSTRUMENTS INCORPORATED	D.C. Maryland California Texas	NAVY USAF USAF USAF	RDTE/Space-Tracking & Data Acq-Engineering RDTE/Space-Tracking & Data Acq-Engineering RDTE/Space-Tracking & Data Acq-Engineering RDTE/Space-Tracking & Data Acq-Engineering	797 255- 2,818 275
R&D TOTAL	AEROJET ELECTRO SYSTEMS FORD AEROSPACE COMMUNICATIONS CORP INTERNATIONAL BUS MCHS CORP	California California Colorado Maryland	USAF USAF USAF USAF	RDTE/Space-Tracking & Data Acq-Op Systems RDTE/Space-Tracking & Data Acq-Op Systems RDTE/Space-Tracking & Data Acq-Op Systems RDTE/Space-Tracking & Data Acq-Op Systems	1,704 4,476 60,070 27,302
	CONTRACTOR TOTAL				87,372
	LITTON SYSTEMS INC	California	USAF	RDTE/Space-Tracking & Data Acq-Op Systems	6,724
R&D TOTAL					100,276
AR46	BERNER LANPHIER & ASSOCIATES DYNCORP PERKIN ELMER CORPORATION	Maryland New Mexico Conn	USAF ARMY USAF	RDTE/Space-Tracking & Data Acq-Mgmt & Supp RDTE/Space-Tracking & Data Acq-Mgmt & Supp RDTE/Space-Tracking & Data Acq-Mgmt & Supp	89 5,288 189
R&D TOTAL					5,566
AR61	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Station-Basic Research	12,275
AR63	BRUSH WELLMAN INC	Ohio	USAF	RDTE/Space-Station-Advanced Development	60
	TRW INC	California	USAF	RDTE/Space-Station-Advanced Development	1,361
R&D TOTAL					1,421
AR91	AUBURN UNIVERSITY GENERAL RESEARCH CORPORATION	Alabama California	NAVY USAF	RDTE/Space - Other - Basic Research RDTE/Space - Other - Basic Research	1,347 3,590

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AR91 (CONTINUED)					
	SOFTWARE PRDUCTIVITY SOLUTIONS	Florida	NAVY	RDTE/Space - Other - Basic Research	313
	SOFTWARE TECHNOLOGY INC	Florida	NAVY	RDTE/Space - Other - Basic Research	595
	SOLAR ELECTRIC CO INC	Maryland	ARMY	RDTE/Space - Other - Basic Research	333
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Space - Other - Basic Research	26
	R&D TOTAL				6,204
			USAF	RDTE/Space - Other - Exploratory Developme	140
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Exploratory Developme	36,564
	LOGICON INC	California	USAF	RDTE/Space - Other - Exploratory Developme	2,108
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Space - Other - Exploratory Developme	170
	PERKIN ELMER CORPORATION	Conn	NAVY	RDTE/Space - Other - Exploratory Developme	4,445
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Exploratory Developme	398
	SCHAFFER W J ASSOCIATES INC	Mass	NAVY	RDTE/Space - Other - Exploratory Developme	147
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Space - Other - Exploratory Developme	10,333
	TRW INC	California	USAF	RDTE/Space - Other - Exploratory Developme	36,424
	R&D TOTAL				90,729
		California	USAF	RDTE/Space - Other - Advanced Development	27
	BRUSH WELLMAN INC	Ohio	USAF	RDTE/Space - Other - Advanced Development	180
	EAGLE PITCHER INDUSTRIES INC	California	USAF	RDTE/Space - Other - Advanced Development	302
	FORD AEROSPACE COMMCTIONS CORP	California	USAF	RDTE/Space - Other - Advanced Development	1,742
	HELIX TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Space - Other - Advanced Development	60
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Space - Other - Advanced Development	2,825
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Advanced Development	82,631
	LOGICON INC	California	USAF	RDTE/Space - Other - Advanced Development	611

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AR93 (CONTINUED)					
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Other - Advanced Development	\$ 37,435
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Space - Other - Advanced Development	717
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Advanced Development	48,912
	SPIRE CORPORATION	Mass	NAVY	RDTE/Space - Other - Advanced Development	851
	R&D TOTAL				176,293
	AR94 BOEING COMPANY THE	Washington	USAF	RDTE/Space - Other - Engineering Developme	692
	GENERAL DYNAMICS CORPORATION	Missouri	USAF	RDTE/Space - Other - Engineering Developme	3,246
	GENERAL ELECTRIC CO	New Jersey	USAF	RDTE/Space - Other - Engineering Developme	3,000
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Engineering Developme	1,569
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Space - Other - Engineering Developme	17,580
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Engineering Developme	4,791
	TRW INC	California	SAF	RDTE/Space - Other - Engineering Developme	1,007
	R&D TOTAL				31,885
	AR95 DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Space - Other - Operational Systems D	474
	SOFTWARE ENGRG ASSOCIATES	California	USAF	RDTE/Space - Other - Operational Systems D	687
	SPACE APPLICATIONS CORPORATION	California	USAF	RDTE/Space - Other - Operational Systems D	10,323
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Space - Other - Operational Systems D	83
	R&D TOTAL				11,567
	AR96 ADAPTIVE SENSORS INC	California	USAF	RDTE/Space - Other - Management & Support	147
		Texas	USAF	RDTE/Space - Other - Management & Support	48
	CONTRACTOR TOTAL				195
	ADVANCED PROJECTS RESEARCH INC	California	USAF	RDTE/Space - Other - Management & Support	50
	AMERICAN COMPOSITE TECHNOLOGY	Mass	USAF	RDTE/Space - Other - Management & Support	51

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION - - - - -	\$	
AR96 (CONTINUED)						
	APPLIED RESEARCH CORPORATION	Maryland	USAF	RDTE/Space - Other - Management & Support	\$ 48	
	APPLIED RESEARCH INC	Alabama	USAF	RDTE/Space - Other - Management & Support	44	
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Space - Other - Management & Support	50	
	B D SYSTEMS INC	California	USAF	RDTE/Space - Other - Management & Support	2,196	
	BERNER LANPHIER & ASSOCIATES	Maryland	USAF	RDTE/Space - Other - Management & Support	50	
	CENTER FOR STRATEGIC STUDY	Texas	USAF	RDTE/Space - Other - Management & Support	50	
	CGYNUIS ENGINEERING	California	USAF	RDTE/Space - Other - Management & Support	47	
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Space - Other - Management & Support	290	
	DEFENSE SYSTEMS INC	Virginia	USAF	RDTE/Space - Other - Management & Support	290	
	ELECTROCHEM INC	Mass	USAF	RDTE/Space - Other - Management & Support	50	
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Space - Other - Management & Support	51	
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space - Other - Management & Support	20,460	
	GIGABIT LOGIC INC	California	USAF	RDTE/Space - Other - Management & Support	45	
	INDEPENDENT RISK ASSESSMENT	California	USAF	RDTE/Space - Other - Management & Support	300	
	INTEGRAL SYSTEMS INC	Maryland	USAF	RDTE/Space - Other - Management & Support	54	
	INTERSPEC INC	Penn	USAF	RDTE/Space - Other - Management & Support	600	
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Space - Other - Management & Support	56	
	IRVINE TECHNOLOGY GROUP INC	California	USAF	RDTE/Space - Other - Management & Support	300	
	MARK RESOURCES INC	California	USAF	RDTE/Space - Other - Management & Support	59	
	MC DONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Space - Other - Management & Support	114	
	MICROCOSM	California	USAF	RDTE/Space - Other - Management & Support	300	
	ORBITAL SYSTEMS	Maryland	USAF	RDTE/Space - Other - Management & Support	50	
	R SCAN	Minnesota	USAF	RDTE/Space - Other - Management & Support	49	

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	--R&D DESCRIPTION--	\$	34
AR96 (CONTINUED)							
	SCI SYSTEMS INC	Alabama			RDTE/Space - Other - Management & Support		
	SCIENCE & TECHNOLOGY CORP	Virginia	USAF	RDTE/Space - Other - Management & Support		\$	63
	SPARTA INC	California	USAF	RDTE/Space - Other - Management & Support			241
	SPIRE CORPORATION	Mass	USAF	RDTE/Space - Other - Management & Support			50
	SYSTEMS & LOGISTICS CORP	California	USAF	RDTE/Space - Other - Management & Support			449
	SYSTEMS WEST INC	California	USAF	RDTE/Space - Other - Management & Support			55
	TAU CORPORATION	California	USAF	RDTE/Space - Other - Management & Support			49
	TECHNOMICS INC	California	USAF	RDTE/Space - Other - Management & Support			64
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Space - Other - Management & Support			318
	THOMAS SCIFERS INC	California	USAF	RDTE/Space - Other - Management & Support			97
	TOYON RESEARCH CORP	California	USAF	RDTE/Space - Other - Management & Support			290
	TRW INC	California	USAF	RDTE/Space - Other - Management & Support			2,683
	WOVENWIRE CORPORATION	New Mexico	USAF	RDTE/Space - Other - Management & Support			49
	R&D TOTAL						30,291
AS15	ALLIED SIGNAL AEROSPACE CO	Arizona	ARMY	RDTE/Transportation - Air - Op Systems Dev			382
AS23	ANALYTICS INCORPORATED	Penn	NAVY	RDTE/Transportation - Motor Veh - Advanced			34
AS54	CHAMBERLAIN MANUFACTURING CORP	Illinois	ARMY	RDTE/Transportation - Rail - Engineering D			82
AS41	CUYUNA ENGINE COMPANY	Minnesota	NAVY	RDTE/Transportation - Marine - Basic Resea			50
AT13	FOSTER MILLER INC	Mass	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Advanced			1,933
AT14	FOSTER MILLER INC	Mass	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Engr Dev			85
AT34	ALLIED SIGNAL AEROSPACE CO	New Jersey	ARMY	RDTE/Trans - Navigational Aids - Engr Deve			49
AT95	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Trans - Other - Operational Systems D			1,751
AV32	HONEYWELL INC	Minnesota	NAVY	RDTE/Mining Methods-Subsurface-Exploratory			1,568-

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION
	LORAL CORPORATION	Ohio	NAVY	RDTE/Mining Methods-Subsurface-Exploratory
R&D TOTAL			\$	1,494-
AV71 RENSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Mining - Metallurgical - Basic Resear	35
AZ11 A T & T TECHNOLOGIES INC	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	235
N Carolina	USAF	RDTE/Other Research & Development-Basic Re	150	
CONTRACTOR TOTAL				385
ATSS INC	California	ARMY	RDTE/Other Research & Development-Basic Re	50
ACADEMY OF APPLIED SCIENCE INC	N. H.	ARMY	RDTE/Other Research & Development-Basic Re	108
ACCURATE AUTOMATION CORPORATIO	Tennessee	NAVY	RDTE/Other Research & Development-Basic Re	49
ACUTRONIC FRANCE SA	FRANC:	ARMY	RDTE/Other Research & Development-Basic Re	118
ADVANCED COUNTERMEASURE SYSTEMS	California	NAVY	RDTE/Other Research & Development-Basic Re	54
ADVANCED MECHANICAL TECHNOLOGY	Mass	ARMY	RDTE/Other Research & Development-Basic Re	50
ADVANCED RES & APPLICATIONS	California	NAVY	RDTE/Other Research & Development-Basic Re	63
ADVANCED RESOURCE DEV CORP	Maryland	OCE	RDTE/Other Research & Development-Basic Re	128
ADVANCED SCIENTIFIC CONCEPTS	California	ARMY	RDTE/Other Research & Development-Basic Re	50
ADVANCED SYSTEMS TECHNOLOGIES	Colorado	NAVY	RDTE/Other Research & Development-Basic Re	60
ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	190
ADVANCED TECHNOLOGY MTLS DEL	Conn	ARMY	RDTE/Other Research & Development-Basic Re	162
AEROENVIRONMENT INC	California	NAVY	RDTE/Other Research & Development-Basic Re	249
AKMAN ASSOCIATES INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	226
ALCORN STATE UNIVERSITY	Miss	OCE	RDTE/Other Research & Development-Basic Re	26
ALFORD ROGERS CULLIMORE CONCEP	Florida	OCE	RDTE/Other Research & Development-Basic Re	99
ALLEN CORPORATION OF AMERICA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	120

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(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	DEPT
			R&D DESCRIPTION
AZ11 (CONTINUED)			
	ALLIED SIGNAL AEROSPACE CO	Arizona	ARMY
	D.C.	NAVY	RDTE/Other Research & Development-Basic Re
	Maryland	NAVY	RDTE/Other Research & Development-Basic Re
	CONTRACTOR TOTAL		
	Mass	ARMY	RDTE/Other Research & Development-Basic Re
	Virginia	NAVY	RDTE/Other Research & Development-Basic Re
	Virginia	OCE	RDTE/Other Research & Development-Basic Re
	Mass	ARMY USAF	RDTE/Other Research & Development-Basic Re
	COUNTRY TOTAL		
	Conn	ARMY	RDTE/Other Research & Development-Basic Re
	Washington	ARMY	RDTE/Other Research & Development-Basic Re
	Ohio	ARMY	RDTE/Other Research & Development-Basic Re
	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re
	D.C.	NAVY	RDTE/Other Research & Development-Basic Re
	California	NAVY	RDTE/Other Research & Development-Basic Re
	Colorado	ARMY	RDTE/Other Research & Development-Basic Re
	Rhode Isld	NAVY	RDTE/Other Research & Development-Basic Re
	Colorado	ARMY	RDTE/Other Research & Development-Basic Re
	Arizona	ARMY	RDTE/Other Research & Development-Basic Re
	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re
	Mass	NAVY	RDTE/Other Research & Development-Basic Re
	Virginia	USAF	RDTE/Other Research & Development-Basic Re
	\$ 209-		
	390		
	16,818		
	16,999		

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	ASTROSYSTEMS INC	Delaware	ARMY	RDTE/Other Research & Development-Basic Re	179
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Other Research & Development-Basic Re	491
	ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Other Research & Development-Basic Re	681
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	72
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	908
	AVON CLEANING GROUP LTD	UNITED KINGDOM	ARMY	RDTE/Other Research & Development-Basic Re	46
	AXIOMATIX	California	ARMY	RDTE/Other Research & Development-Basic Re	65
	BAKER WILFRED ENGINEERING	Texas	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	50 50
COUNTRY TOTAL					
	BALL CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re	100
		Colorado	NAVY	RDTE/Other Research & Development-Basic Re	275
CONTRACTOR TOTAL					
	BATTELLE MEMORIAL INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	354
		Arizona	ARMY	RDTE/Other Research & Development-Basic Re	222
		California	ARMY	RDTE/Other Research & Development-Basic Re	41
		Colorado	ARMY	RDTE/Other Research & Development-Basic Re	257
		Conn	ARMY	RDTE/Other Research & Development-Basic Re	101
		D.C.	ARMY	RDTE/Other Research & Development-Basic Re	75
		Florida	ARMY	RDTE/Other Research & Development-Basic Re	37
		Georgia	ARMY	RDTE/Other Research & Development-Basic Re	257
		Illinois	ARMY	RDTE/Other Research & Development-Basic Re	219
		Indiana	ARMY	RDTE/Other Research & Development-Basic Re	181
					77

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
COUNTRY TOTAL						1,430
Mass	ARMY	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	\$ 57	
Michigan	ARMY	Maryland	ARMY DLA	RDTE/Other Research & Development-Basic Re	38	
Minnesota	ARMY			RDTE/Other Research & Development-Basic Re	1,392	
Nevada	ARMY			RDTE/Other Research & Development-Basic Re		
N. H.	ARMY			RDTE/Other Research & Development-Basic Re		
New Jersey	ARMY			RDTE/Other Research & Development-Basic Re		
New Mexico	ARMY			RDTE/Other Research & Development-Basic Re		
New York	ARMY			RDTE/Other Research & Development-Basic Re		
N Carolina	ARMY			RDTE/Other Research & Development-Basic Re		
Ohio	ARMY			RDTE/Other Research & Development-Basic Re		
Oklahoma	ARMY			RDTE/Other Research & Development-Basic Re		
Oregon	ARMY			RDTE/Other Research & Development-Basic Re		
Penn	ARMY			RDTE/Other Research & Development-Basic Re		
S Carolina	ARMY			RDTE/Other Research & Development-Basic Re		
Tennessee	ARMY			RDTE/Other Research & Development-Basic Re		
Texas	ARMY			RDTE/Other Research & Development-Basic Re		
Virginia	ARMY			RDTE/Other Research & Development-Basic Re		
Washington	ARMY			RDTE/Other Research & Development-Basic Re		
CANADA	ARMY			RDTE/Other Research & Development-Basic Re	104	

AZ11 (CONTINUED)

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	DEPT
R&D DESCRIPTION			
	CONTRACTOR TOTAL		\$ 8,668
BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re
BECON SERVICES CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Basic Re
BEDFORD RESEARCH ASSOCIATES	Mass	USAF	RDTE/Other Research & Development-Basic Re
BEN GURION UNIVERSITY OF THE N	ISRAEL	ARMY	RDTE/Other Research & Development-Basic Re
BEND RESEARCH INC	Oregon	ARMY	RDTE/Other Research & Development-Basic Re
BIOSONICS INC	Washington	OCE	RDTE/Other Research & Development-Basic Re
BOEING COMPANY THE	Washington	ARMY	RDTE/Other Research & Development-Basic Re
BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re
BORGMAN L E INC	Wyoming	OCE	RDTE/Other Research & Development-Basic Re
BOSTON COLLEGE TRUSTEES OF	Mass	NAVY	RDTE/Other Research & Development-Basic Re
		USAF	RDTE/Other Research & Development-Basic Re
	COUNTRY TOTAL		245
BOSTON UNIVERSITY TRUSTEES OF	Mass	ARMY	RDTE/Other Research & Development-Basic Re
BRANDEIS UNIVERSITY	Mass	ARMY	RDTE/Other Research & Development-Basic Re
BREED & HARVEL ASSOCIATES	Texas	NAVY	RDTE/Other Research & Development-Basic Re
BROWN UNIVERSITY	Rhode Isld	ARMY	RDTE/Other Research & Development-Basic Re
BRUNEL UNIVERSITY	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re
C K ASSOCIATES INC	Louisiana	OCE	RDTE/Other Research & Development-Basic Re
C V D EQUIPMENT CORPORATION	New York	USAF	RDTE/Other Research & Development-Basic Re
CALIFORNIA INST OF TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Basic Re
	COUNTRY TOTAL		157
CALIFORNIA RES & TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Basic Re
			1,167
			626

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)				OCE RDTE/Other Research & Development-Basic Re	261
				COUNTRY TOTAL	887
CALIFORNIA ST UNIV NORTHRIDGE	California	ARMY	RDTE/Other Research & Development-Basic Re	41	
CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Other Research & Development-Basic Re	25	
CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Basic Re	198	
CAMBRIDGE SCIENTIFIC INC	Illinois	NAVY	RDTE/Other Research & Development-Basic Re	232	
CANADIAN COMMERCIAL CORP	CANADA	NAVY	RDTE/Other Research & Development-Basic Re	86	
CANSTAR	CANADA	NAVY	RDTE/Other Research & Development-Basic Re	87	
CAPE COD RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	47	
CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re	481	
CASE WESTERN RESERVE UNIV	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	322	
		NAVY	RDTE/Other Research & Development-Basic Re	63	
		COUNTRY TOTAL			385
CB TANG INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	50	
CENTRE D'ÉTUDES ET DÉRECHERCHE	FRANCE	ARMY	RDTE/Other Research & Development-Basic Re	26	
CHASE CONSULTANTS INC	California	ARMY	RDTE/Other Research & Development-Basic Re	50	
CHEMICAL DYNAMICS CORP	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	121	
CHEMICAL RESEARCH LABORATORIES	Rhode Islid	ARMY	RDTE/Other Research & Development-Basic Re	50	
CHICAGO BRIDGE & IRON COMPANY	Illinois	NAVY	RDTE/Other Research & Development-Basic Re	44	
CHIRP CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	50	
CHOCTAW ENGINEERING CO INC	Miss	ARMY	RDTE/Other Research & Development-Basic Re	412	
CHOMERIC INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	141	
CITY UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Research & Development-Basic Re	250	
CLARKSON UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re	115	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	---> DESCRIPTION	
AZ11 (CONTINUED)					
	CLEMSON UNIVERSITY	S Carolina	ARMY DLA OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	\$ 143
		COUNTRY TOTAL			1,081
	COASTAL FRONTIERS CORP	Oregon	OCE	RDTE/Other Research & Development-Basic Re	34
	COLEMAN RESEARCH CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Basic Re	114
	COLORADOC ~CHOOL OF MINES	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	128
	COLORADO STATE UNIVERSITY	Colorado	ARMY NAVY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	1,554
		COUNTRY TOTAL			2,059
	COLUMBIA UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re	864
	COMMAND SYSTEMS GROUP INC	California	NAVY	RDTE/Other Research & Development-Basic Re	500
	COMMONWEALTH OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	99
	COMPUTER DATA SYSTEMS INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	105
	CONNECTICUT STATE OF	Conn	ARMY	RDTE/Other Research & Development-Basic Re	60
	CONSORTIUM UNIV WASH METRO	D.C.	ARMY	RDTE/Other Research & Development-Basic Re	624
	CONSULTANTS CHOICE INC	Georgia	ARMY	RDTE/Other Research & Development-Basic Re	143
	CONTINUUM DYNAMICS INC	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	470
	CORK GEOTECHNICS LTD	IRELAND	ARMY	RDTE/Other Research & Development-Basic Re	30
	CORNELL UNIVERSITY	New York	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	5,862
		COUNTRY TOTAL			5,890
	CORNING INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	147
	CORWIN ROBERT F PHD	California	OCE	RDTE/Other Research & Development-Basic Re	33

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION	
AZ11 (CONTINUED)						
	COVALENT ASSOCIATES INC	Illinois			RDTE/Other Research & Development-Basic Re	\$ 53
	CRYSTAL SYSTEMS INC	Mass			RDTE/Other Research & Development-Basic Re	50
	CYBER COM CORP	Virginia	ARMY		RDTE/Other Research & Development-Basic Re	94
	D C W INDUSTRIES INC	California	ARMY		RDTE/Other Research & Development-Basic Re	158
	DAEDALUS ENTERPRISES INC	Michigan	ARMY		RDTE/Other Research & Development-Basic Re	366
	DAMASKOS INC	Penn	ARMY		RDTE/Other Research & Development-Basic Re	244
	DARTMOUTH COLLEGE	N.H.	ARMY		RDTE/Other Research & Development-Basic Re	80
	DE LEW CATHER CO	Maryland	ARMY		RDTE/Other Research & Development-Basic Re	80
	DECISION SCIENCE APPLICATIONS	Virginia	NAVY		RDTE/Other Research & Development-Basic Re	48
	DECISION SCIENCE CONSORTIUM	Virginia	ARMY		RDTE/Other Research & Development-Basic Re	44
	DEFENSE SYSTEMS INC	Virginia	ARMY		RDTE/Other Research & Development-Basic Re	295
	DELFIN SYSTEMS	California	NAVY		RDTE/Other Research & Development-Basic Re	50
	DELTA INFORMATION SYSTEMS	Penn	NAVY		RDTE/Other Research & Development-Basic Re	100
	DIGITAL SIGNAL CORPORATION	Virginia	NAVY		RDTE/Other Research & Development-Basic Re	150
	DOW CHEMICAL COMPANY THE	Michigan	ARMY NAVY		RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	499 3,234
	COUNTRY TOTAL					3,733
	DRAPER ARLES STARK LAB INC	Mass	NAVY		RDTE/Other Research & Development-Basic Re	99
	DREXEL UNIVERSITY	Penn	ARMY NAVY		RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	84 25
	COUNTRY TOTAL					109
	DUKE UNIVERSITY	N Carolina	ARMY		RDTE/Other Research & Development-Basic Re	1,056
	DYNAIR ELECTRONICS INC	California	NAVY		RDTE/Other Research & Development-Basic Re	29
	DYNAMIC ANALYSIS & TEST ASSOC	California	NAVY		RDTE/Other Research & Development-Basic Re	49

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)			
R&D	CONTRACTOR NAME	COUNTRY	DEPT
R&D DESCRIPTION			
AZ11 (CONTINUED)			
DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re
DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Research & Development-Basic Re
E G & G MASON RESEARCH INST	Mass	ARMY	RDTE/Other Research & Development-Basic Re
E G & G PRINCETON APPLIED RES	Ohio	OCE	RDTE/Other Research & Development-Basic Re
EAGLE TECHNOLOGY INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re
EARTH TECHNOLOGY CORP WESTERN	California	ARMY	RDTE/Other Research & Development-Basic Re
EAST CAROLINA UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re
EDGEWOOD TELESERVICES	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re
ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Research & Development-Basic Re
	New Mexico	NAVY	RDTE/Other Research & Development-Basic Re
CONTRACTOR TOTAL			1,027
ELECTRONETICS CORPORATION	New York	ARMY	RDTE/Other Research & Development-Basic Re
EMCORE CORP	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re
EMERGING CONCEPTS	California	NAVY	RDTE/Other Research & Development-Basic Re
EMORY UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re
ENGINEERING RESEARCH ASSOC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re
ENVIRONMENTAL RESEARCH	Michigan	ARMY USAF DLA	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re
COUNTRY TOTAL			1,252
ENVIROSCAN INC	Washington	OCE	RDTE/Other Research & Development-Basic Re
EVANS CHARLES & ASSOCIATES	California	USAF	RDTE/Other Research & Development-Basic Re
EVANS HAMILTON INC	Texas	OCE	RDTE/Other Research & Development-Basic Re
EXTERIOR WALL SYSTEMS EWS NC	New York	ARMY	RDTE/Other Research & Development-Basic Re

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	FA FAILURE ANALYSIS ASSOCIATES	California	ARMY	RDTE/Other Research & Development-Basic Re	\$ 190
	FAIRCHILD INDUSTRIES INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	117
	FLORIDA ATLANTIC UNIVERSITY	Florida	ARMY	RDTE/Other Research & Development-Basic Re	53
	FLUROCHEM INC	California	ARMY	RDTE/Other Research & Development-Basic Re	114
	FLC'W ANALYSIS INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	49
	FLOW GENERAL INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	127
	FLOW INDUSTRIES INC	Washington	ARMY	RDTE/Other Research & Development-Basic Re	228
		NAVY	RDTE/Other Research & Development-Basic Re	51	
		COUNTRY TOTAL			279
	FM TECHNOLOGIES INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	150
	FMC CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	270
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	300
		NAVY	RDTE/Other Research & Development-Basic Re	56	
		COUNTRY TOTAL			356
	FRANKLIN RESEARCH CORP	Ohio	NAVY	RDTE/Other Research & Development-Basic Re	39
	FRAUNHAFER GESELLSCHAFT ZUR FOE	GERMANY, F	ARMY	RDTE/Other Research & Development-Basic Re	27
	FRIED D L ASSOCIATES INC	California	NAVY	RDTE/Other Research & Development-Basic Re	175
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Other Research & Development-Basic Re	285
	G T E LABORATORIES INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	114
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	280
		Texas	ARMY	RDTE/Other Research & Development-Basic Re	428
		CONTRACTOR TOTAL			708
	GENERAL ELECTRIC CO	New York	ARMY	RDTE/Other Research & Development-Basic Re	1,548
		NAVY	RDTE/Other Research & Development-Basic Re	1,236	

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

SOCIETY IN TWENTIETH

(AMOUNTS IN THOUSANDS)

AZII (CONTINUED)

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZ11 (CONTINUED)						
	HATFIELD POLYTECH CENTRE THE	UNITED KINGDOM	ARMY	RDTE/Other Research & Development-Basic Re	\$	30
	HEWLETT PACKARD COMPANY	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		36
	HOGENTOGLER & CO INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		100
	HONEYWELL INC	Minnesota	NAVY	RDTE/Other Research & Development-Basic Re		137
	HOWARD UNIVERSITY	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		26
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Research & Development-Basic Re		82
		NAVY	RDTE/Other Research & Development-Basic Re			11.846
			COUNTRY TOTAL			11.928
	HUMAN FACTOR SOLUTIONS	Maryland	USAF	RDTE/Other Research & Development-Basic Re	\$	49
	HUMAN RESOURCES ORGANIZATION	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		326
	HYDROQUAL INC	New Jersey	OCE	RDTE/Other Research & Development-Basic Re		255
	HYPRES INC	New York	NAVY	RDTE/Other Research & Development-Basic Re		284
	I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		371
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Research & Development-Basic Re		30
		DLA	RDTE/Other Research & Development-Basic Re			470
			COUNTRY TOTAL			500
	I T CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	\$	100
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KINGDOM	ARMY	RDTE/Other Research & Development-Basic Re		71
	INERTIA SWITCH INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		770
	INFORMATION SYSTEMS LABS	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		108
	INFORMATION SYSTEMS NETWORKS CORP	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		865
	INRAD INC	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		52
	INSTITUTE DE CHIMIE PHYSIQUE	SWITZERLAND	ARMY	RDTE/Other Research & Development-Basic Re		34
	INSTITUTO SUPERIOR TECNICO	PORTUGAL	ARMY	RDTE/Other Research & Development-Basic Re		50

DEPARTMENT OF DEFENSE

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	INTELLITEK INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	200
	INTERFEROMETRICS INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	382
	INTERNTNL TCHNCL ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	50
	IOWA STATE UNIV SCNC	Iowa	ARMY	RDTE/Other Research & Development-Basic Re	45
	ISRAELI INS OF MILITARY STUDY	ISRAEL	ARMY	RDTE/Other Research & Development-Basic Re	67
	ITE INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	836
	J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Other Research & Development-Basic Re	449
	JAI ASSOCIATES INC	California	ARMY	RDTE/Other Research & Development-Basic Re	95
	JAYCOR	California	ARMY	RDTE/Other Research & Development-Basic Re	49
		D.C.	NAVY	RDTE/Other Research & Development-Basic Re	489
		Miss	OCE	RDTE/Other Research & Development-Basic Re	63
	CONTRACTOR TOTAL				601
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	73 75
	COUNTRY TOTAL				148
	KAMAN SCIENCES CORPORATION	California	DLA	RDTE/Other Research & Development-Basic Re	480
	KANSAS STATE UNIVERSITY	Kansas	ARMY	RDTE/Other Research & Development-Basic Re	232
	KARAGUZIAN & CASE	California	ARMY	RDTE/Other Research & Development-Basic Re	43
	KATHOLIEKE UNIVERSITEIT LEUVEN	BELGIUM	ARMY	RDTE/Other Research & Development-Basic Re	34
	KLEIN ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	173
	KNIGHT KOREA (JVK)	GERMANY, F	ARMY	RDTE/Other Research & Development-Basic Re	30
	KOPIN CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re	249
	KUK DONG CONSTRUCTION CO LTD	SWITZERLAN	ARMY	RDTE/Other Research & Development-Basic Re	94

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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-
AZ11 (CONTINUED)				
KYONG HYANG CONSTR & ENGR CO	UNITED KINGDOM	ARMY	RDTE/Other Research & Development-Basic Re	\$ 54
L N R COMMUNICATIONS INC	New York	NAVY	RDTE/Other Research & Development-Basic Re	49
LASER SYSTEMS & RSCH CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	7,347
LEE J S ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	100
LEHIGH UNIVERSITY	Penn	ARMY NAVY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	177 45 56
COUNTRY TOTAL				
LIFE SYSTEMS INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	35
LINCOM CORP NOT INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	50
LINKNET	California	NAVY	RDTE/Other Research & Development-Basic Re	98
LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	144
LITTON SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Basic Re	1,460
CONTRACTOR TOTAL				
LOCKHEED MISSILES & SPACE CO	California	ARMY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	90 1,550
COUNTRY TOTAL				
CONTRACTOR TOTAL				
LOCUS INC	Texas	ARMY	RDTE/Other Research & Development-Basic Re	875
CONTRACTOR TOTAL				
LOGIMETRICS INC DEL	Penn	NAVY	RDTE/Other Research & Development-Basic Re	1,324
CONTRACTOR TOTAL				
COUNTRY TOTAL				
CONTRACTOR TOTAL				
LOGIMETRICS INC DEL	New York	NAVY	RDTE/Other Research & Development-Basic Re	186
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**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZ11 (CONTINUED)						
	LOUISIANA STATE UNIVERSITY	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	\$ 68	
	LTV AEROSPACE & DEF CO	Texas	NAVY USAF	RDTE/Other Research & Development-Basic Re	386	
				RDTE/Other Research & Development-Basic Re	321	
				COUNTRY TOTAL	707	
	LUTRONIX INC	California	NAVY	RDTE/Other Research & Development-Basic Re	161	
	M S P CORPORATION	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re	52	
	MAFAT DEPT OF BEHAVIORAL SCIEN	ISRAEL	ARMY	RDTE/Other Research & Development-Basic Re	28	
	MANAGEMENT COMM & CTRL	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	584	
	MARIQUEST INC	Texas	OCE	RDTE/Other Research & Development-Basic Re	525	
	MARQUARDT COMPANY THE	California	NAVY	RDTE/Other Research & Development-Basic Re	761	
	MARTIN MARIETTA CORPORATION	Colorado	NAVY	RDTE/Other Research & Development-Basic Re	1,700	
		Florida	NAVY	RDTE/Other Research & Development-Basic Re	34	
		Maryland	NAVY	RDTE/Other Research & Development-Basic Re	303	
				COUNTRY TOTAL	2,037	
	MASS COLLEGE OF PHARMACY	Mass	ARMY	RDTE/Other Research & Development-Basic Re	50	
	MASSACHSETTS INST OF TECHNOLOGY	Mass	ARMY NAVY USAF OCE	RDTE/Other Research & Development-Basic Re	6,881	
			RDTE/Other Research & Development-Basic Re	283		
			RDTE/Other Research & Development-Basic Re	417		
			RDTE/Other Research & Development-Basic Re	64		
			COUNTRY TOTAL	7,645		
	MASSACHUSETTS UNIVERSITY OF	Mass	ARMY	RDTE/Other Research & Development-Basic Re	951	
	MAXWELL LABORATORIES INC	California	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re	27	
			RDTE/Other Research & Development-Basic Re	33		
			RDTE/Other Research & Development-Basic Re	1,573		
			COUNTRY TOTAL	1,633		
	MC DONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Other Research & Development-Basic Re	100	

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION
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AZ11 (CONTINUED)

USAF	RDTE/Other Research & Development-Basic Re	\$	30
COUNTRY TOTAL			
CANADA	ARMY	RDTE/Other Research & Development-Basic Re	130
Alabama	ARMY	RDTE/Other Research & Development-Basic Re	72
Maryland	ARMY	RDTE/Other Research & Development-Basic Re	134
New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	440
Virginia	NAVY	RDTE/Other Research & Development-Basic Re	155
Michigan	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	220 25
COUNTRY TOTAL			
Michigan	ARMY	RDTE/Other Research & Development-Basic Re	40
Minnesota	NAVY	RDTE/Other Research & Development-Basic Re	199
California	NAVY	RDTE/Other Research & Development-Basic Re	159
Virginia	NAVY	RDTE/Other Research & Development-Basic Re	200
CONTRACTOR TOTAL			
MISSISSIPPI STATE UNIVERSITY	OCE	RDTE/Other Research & Development-Basic Re	132
MISSOURI UNIVERSITY OF	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	387 60
COUNTRY TOTAL			
Mass	ARMY	RDTE/Other Research & Development-Basic Re	98
Georgia	OCE	RDTE/Other Research & Development-Basic Re	34
California	ARMY	RDTE/Other Research & Development-Basic Re	275
New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	493
Virginia	NAVY	RDTE/Other Research & Development-Basic Re	50

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZ11 (CONTINUED)						
	N K H INC	California	ARMY	RDTE/Other Research & Development-Basic Re	\$	595-
	NATIONAL ACADEMY SCIENCES USA	California	NAVY	RDTE/Other Research & Development-Basic Re		100
		D.C.	ARMY	RDTE/Other Research & Development-Basic Re		1,574
	CONTRACTOR TOTAL					1,674
	NATIONAL HYBRID INC	New York	ARMY	RDTE/Other Research & Development-Basic Re		250
	NATIONAL SERVICES PROJECTS	ITALY	ARMY	RDTE/Other Research & Development-Basic Re		38
	NEW HAMPSHIRE UNIVERSITY SYS	N.H.	ARMY	RDTE/Other Research & Development-Basic Re		46
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		588
	NEW MEXICO INST OF MIN TCHNLGY	New Mexico	USAF	RDTE/Other Research & Development-Basic Re		83
	NEW YORK UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re		220
	NICHOLS RESEARCH CORPORATION	Alabama	NAVY	RDTE/Other Research & Development-Basic Re		456
	NIELSEN ENGINEERING & RES	California	ARMY	RDTE/Other Research & Development-Basic Re		109
	NORDEN SYSTEMS INC	Conn	NAVY	RDTE/Other Research & Development-Basic Re		122
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		984
			USAF	RDTE/Other Research & Development-Basic Re		50
			OCE	RDTE/Other Research & Development-Basic Re		29
	COUNTRY TOTAL					1,063
	NORTH EAST SEMICONDUCTOR INC	New York	ARMY	RDTE/Other Research & Development-Basic Re		50
	NORTHEASTERN UNIVERSITY CORP	Mass	ARMY	RDTE/Other Research & Development-Basic Re		96
	NORTHWESTERN UNIVERSITY	Illinois	ARMY	RDTE/Other Research & Development-Basic Re		367
	NUCLEAR METALS INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		257
	ODYSSEY RESEARCH ASSOCIATES	New York	NAVY	RDTE/Other Research & Development-Basic Re		60
	OGUSHWITZ TECHNICAL CONSULTING	New Jersey	OCE	RDTE/Other Research & Development-Basic Re		28
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		309

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZII (CONTINUED)						
		COUNTRY TOTAL	OCE	RDTE/Other Research & Development-Basic Re	\$	229
OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Research & Development-Basic Re			538
OLD DMNION UNIV RES FOUNDATION	Virginia	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re			379
		COUNTRY TOTAL	OCE	RDTE/Other Research & Development-Basic Re	\$	150
OPTECH, INC	Canada	ARMY	RDTE/Other Research & Development-Basic Re			180
OPTIMETRICS INC	Michigan	USAF	RDTE/Other Research & Development-Basic Re			2,611
OPTRA INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re			130
OREGON STATE UNIVERSITY	Oregon	OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re			80
		COUNTRY TOTAL	OCE	RDTE/Other Research & Development-Basic Re	\$	26
ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re			106
OUACHITA BAPTIST UNIVERSITY	Arkansas	OCE	RDTE/Other Research & Development-Basic Re			197
OWENS-CORNING FIBERGLAS CORP	Ohio	NAVY	RDTE/Other Research & Development-Basic Re			119
PAR ASSOCIATES	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re			639
PENNSYLVANIA STATE UNIV THE	Penn	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re			49
		COUNTRY TOTAL	OCE	RDTE/Other Research & Development-Basic Re	\$	50
PERCEPTICS CORPORATION	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re			1,056
PERKIN ELMER CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Basic Re			284
PHILADELPHIA COLLEGE OF PAHARM	Penn	ARMY	RDTE/Other Research & Development-Basic Re			394
PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re			50
PHYSICAL RESEARCH INC	Alabama	USAF	RDTE/Other Research & Development-Basic Re			700
PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Other Research & Development-Basic Re			241
		COUNTRY TOTAL	OCE	RDTE/Other Research & Development-Basic Re	\$	180

**DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989**

R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION	\$
PINSON ASSOCIATES INC		Texas			RDTE/Other Research & Development-Basic Re	90
POLYTECHNIC UNIV OF NEW YORK		New York	ARMY		RDTE/Other Research & Development-Basic Re	155
POTOMAC PHOTONICS INC		D.C.	NAVY		RDTE/Other Research & Development-Basic Re	76
POTOMAC RESEARCH INCORPORATED		D.C.	NAVY		RDTE/Other Research & Development-Basic Re	50
POUR LE DEVEL DE LA RECHERCHE		FRANCE	ARMY		RDTE/Other Research & Development-Basic Re	43
PRESEARCH INCORPORATED		Virginia	NAVY		RDTE/Other Research & Development-Basic Re	51
PRINCETON COMBUSTION RES LABS		New Jersey	ARMY		RDTE/Other Research & Development-Basic Re	89
PRINCETON UNIVERSITY		New Jersey	ARMY		RDTE/Other Research & Development-Basic Re	1,050
PURDUE UNIVERSITY		Indiana	ARMY DLA OCE		RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	687 79 142
COUNTRY TOTAL						908
Q DOT INC		Colorado	NAVY		RDTE/Other Research & Development-Basic Re	49
QSOURCE INC		Conn	USAF		RDTE/Other Research & Development-Basic Re	47
QUALCOMM INC		California	NAVY		RDTE/Other Research & Development-Basic Re	99
QUESTAR DATA SYSTEMS INC		Minnesota	ARMY		RDTE/Other Research & Development-Basic Re	25
R & D ASSOCIATES		California	ARMY NAVY		RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	142 175
COUNTRY TOTAL						317
RAYTHEON COMPANY		Mass	NAVY		RDTE/Other Research & Development-Basic Re	153
RAYTHEON NORTHRP INWS JNT VNTR		California	NAVY		RDTE/Other Research & Development-Basic Re	510
REKENTHALER TECHNOLOGY ASSOC		Maryland	ARMY		RDTE/Other Research & Development-Basic Re	44
RENSSELAER POLYTECHNIC INST		New York	ARMY		RDTE/Other Research & Development-Basic Re	1,510
RESOURCE MANAGEMENT ASSOC		California	OCE		RDTE/Other Research & Development-Basic Re	66

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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	--R&D DESCRIPTION--	\$	
AZ11 (CONTINUED)						
	RICE WILLIAM MARSH UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Basic Re		153
	ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		400
		COUNTRY TOTAL				100
						500
	ROYAL HOLLOWAY & BEDFORD COLL	UNITED KINGDOM	ARMY	RDTE/Other Research & Development-Basic Re		40
	RUTGERS THE STATE UNIVERSITY	New Jersey	ARMY NAVY DLA	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		206
		COUNTRY TOTAL				125
						300
	S M SYSTEMS AND RESEARCH CORP	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		54
	S T SYSTEMS CORPORATION	Mass	USAF	RDTE/Other Research & Development-Basic Re		140
	SACHS FREEMAN ASSOCIATES INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		2,790
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		152
		COUNTRY TOTAL				242
						394
	SCIENCE APPLICATIONS INTL CORP	California	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		183
		COUNTRY TOTAL				500
						168
						851
	Colorado	Colorado	NAVY	RDTE/Other Research & Development-Basic Re		45
	Virginia	Virginia	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		2,462
		COUNTRY TOTAL				435
						2,897
	CONTRACTOR TOTAL					3,793
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		105
		COUNTRY TOTAL				228
						333

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZ11 (CONTINUED)						
	SECO DYN INC	California	ARMY	RDTE/Other Research & Development-Basic Re		90
	SEDIMENT INSTRUMENTATION RES DEV	Illinois	OCE	RDTE/Other Research & Development-Basic Re		99
	SENSOR DATA INTERGRATION INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re		51
	SHENANDOAH SYSTEMS CO INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		30
	SIGNAL ANALYTICS	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		54
	SIGNAL PROCESSING TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Basic Re		199
	SIMTEC INC	Virginia	USAF	RDTE/Other Research & Development-Basic Re		341
	SMITHSONIAN INSTITUTION	Mass	NAVY	RDTE/Other Research & Development-Basic Re		858
	SOFTWARE TECHNOLOGY INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		362
	SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Basic Re		85
		Virginia	NAVY	RDTE/Other Research & Development-Basic Re		35
	CONTRACTOR TOTAL					
	SOUTHERN METHODIST UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Basic Re		59
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY USAF DLA	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		382 250 265
		COUNTRY TOTAL				
	SPACE TECH CORP	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		360
	SPARTA INC	California	USAF	RDTE/Other Research & Development-Basic Re		154
	SPECTRA DIODE LABORATORIES	California	NAVY	RDTE/Other Research & Development-Basic Re		140
	SPECTRANETICS CORP	Colorado	NAVY	RDTE/Other Research & Development-Basic Re		97
	SPIRE CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re		349
	SRI INTERNATIONAL	California	ARMY NAVY USAF DLA	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		999 113 331 429
						897

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	COUNTRY TOTAL
SRS TECHNOLOGIES		California	ARMY	RDTE/Other Research & Development-Basic Re	1,872	
STANFORD LEMLAND JUNIOR UNIV		California	ARMY	RDTE/Other Research & Development-Basic Re	170	
STAR MICROWAVE		California	NAVY	RDTE/Other Research & Development-Basic Re	3,303	
STATE UNIVERSITY OF NEW YORK		New York	ARMY	RDTE/Other Research & Development-Basic Re	49	
STATISTICAL SIGNAL		California	ARMY	RDTE/Other Research & Development-Basic Re	1,194	
STEROIDS LTD		Illinois	NAVY	RDTE/Other Research & Development-Basic Re	67	
STEVENS INST OF TECHNOLOGY		New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	49	
SURFACE OPTICS CORP		California	ARMY	RDTE/Other Research & Development-Basic Re	49	
SYNTECHNICS CORPORATION		Mass	NAVY	RDTE/Other Research & Development-Basic Re	74	
SYRACUSE UNIVERSITY		New York	ARMY	RDTE/Other Research & Development-Basic Re	30	
SYSTEMS ENGINEERING INC ASSOCIATES		California	NAVY	RDTE/Other Research & Development-Basic Re	536	
SYSTEMS PLANNING CORP		Virginia	ARMY	RDTE/Other Research & Development-Basic Re	375	
SYSTEMS TECHNOLOGY INC		California	NAVY	RDTE/Other Research & Development-Basic Re	172	
TAU CORPORATION		California	ARMY	RDTE/Other Research & Development-Basic Re	2,814	
TECHNICAL SOLUTIONS INC		New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	34	
TECHNOLOGY FOR SOCIETY		NETHERLAND	ARMY	RDTE/Other Research & Development-Basic Re	49	
TEL AVIV UNIVERSITY		ISRAEL	ARMY	RDTE, Other Research & Development-Basic Re	168	
TELEDYNE INDUSTRIES INC		Virginia	USAF	RDTE/Other Research & Development-Basic Re	68	
TELOS CORPORATION		D.C.	NAVY	RDTE/Other Research & Development-Basic Re	100	
TERRA TEK INC		Utah	OCE	RDTE/Other Research & Development-Basic Re	392	
TEXAS A & M UNIV SYS THE		Texas	ARMY	RDTE/Other Research & Development-Basic Re	873	
			NAVY	RDTE/Other Research & Development-Basic Re	40	
					449	
					50	

AZ11 (CONTINUED)

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
				OCE	RDTE/Other Research & Development-Basic Re	
				COUNTRY TOTAL	ARMY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re
TEXAS INSTRUMENTS INCORPORATED	Texas	Texas				
TEXAS RESEARCH INSTITUTE INC		ARMY	NAVY	RDTE/Other Research & Development-Basic Re		
TITAN CORPORATION	New Mexico	ARMY	ARMY	RDTE/Other Research & Development-Basic Re		
TOOMAY MATHIS & ASSOCIATES	Montana	ARMY	ARMY	RDTE/Other Research & Development-Basic Re		
TRACOR AEROSPACE INC	California	NAVY	NAVY	RDTE/Other Research & Development-Basic Re		
TRI TESSCO	Texas	NAVY	NAVY	RDTE/Other Research & Development-Basic Re		
TRIANGLE RESEARCH & DEV CORP	N Carolina	ARMY	ARMY	RDTE/Other Research & Development-Basic Re		
TRIDENT SYSTEMS INC	Virginia	NAVY	NAVY	RDTE/Other Research & Development-Basic Re		
TS INFOSYSTEMS INC	Maryland	NAVY	NAVY	RDTE/Other Research & Development-Basic Re		
TUFTS UNIVERSITY	Mass	ARMY	ARMY	RDTE/Other Research & Development-Basic Re		
UHV INSTRUMENTS INC	New York	NAVY	NAVY	RDTE/Other Research & Development-Basic Re		
UNIFIED INDUSTRIES INC	Virginia	NAVY	NAVY	RDTE/Other Research & Development-Basic Re		
UNION CARBIDE CORPORATION	Washington	NAVY	NAVY	RDTE/Other Research & Development-Basic Re		
UNITED TECHNOLOGIES CORP	Conn	ARMY USAF	ARMY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		
		COUNTRY TOTAL				
UNIVERSITY OF ALABAMA	Alabama	ARMY	ARMY	RDTE/Other Research & Development-Basic Re	219	
UNIVERSITY OF ALASKA	Alaska	ARMY	ARMY	RDTE/Other Research & Development-Basic Re	145	
UNIVERSITY OF ARIZONA	Arizona	ARMY	ARMY	RDTE/Other Research & Development-Basic Re	170	
UNIVERSITY OF BRISTOL	UNITED KINGDOM	ARMY	ARMY	RDTE/Other Research & Development-Basic Re	75	
		COUNTRY TOTAL				
					478	

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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZ11 (CONTINUED)						
UNIVERSITY OF CALIFORNIA	California	ARMY NAVY USAF OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	\$ 4,562	53-	
	COUNTRY TOTAL				288	90
UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Basic Re		696	696
UNIVERSITY OF CINCINNATI	Mass	ARMY	RDTE/Other Research & Development-Basic Re			
	Ohio	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		160	108
	COUNTRY TOTAL				268	
CONTRACTOR TOTAL	Colorado	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	990	810	49
UNIVERSITY OF COLORADO		COUNTRY TOTAL			810	49
UNIVERSITY OF CONNECTICUT	Conn	ARMY	RDTE/Other Research & Development-Basic Re			
UNIVERSITY OF DAYTON	Ohio	ARMY NAVY DLA	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		575	98
	COUNTRY TOTAL				281	
UNIVERSITY OF DELAWARE	Delaware	ARMY	RDTE/Other Research & Development-Basic Re			
UNIVERSITY OF FLORIDA	Florida	ARMY USAF OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		417	40
	COUNTRY TOTAL				349	
UNIVERSITY OF HAIFA	ISRAEL	ARMY	RDTE/Other Research & Development-Basic Re			
UNIVERSITY OF HOUSTON SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Basic Re			
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Research & Development-Basic Re			
	COUNTRY TOTAL				806	
					95	
					165	
					3,538	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	96
AZ11 (CONTINUED)						
UNIVERSITY OF IOWA THE		Iowa	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	\$	106
UNIVERSITY OF KANSAS		Kansas	ARMY	RDTE/Other Research & Development-Basic Re		3,740
UNIVERSITY OF KENTUCKY		Kentucky	ARMY	RDTE/Other Research & Development-Basic Re		162
UNIVERSITY OF MANCHESTER INSTI		UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re		200
UNIVERSITY OF MARYLAND		Maryland	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		286
UNIVERSITY OF MEDICINE		New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		100
UNIVERSITY OF MIAMI INC		Florida	ARMY	RDTE/Other Research & Development-Basic Re		636
UNIVERSITY OF MICHIGAN		Michigan	ARMY	RDTE/Other Research & Development-Basic Re		540
UNIVERSITY OF MINNESOTA		Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		50
UNIVERSITY OF MISSISSIPPI		Miss	ARMY	RDTE/Other Research & Development-Basic Re		200
UNIVERSITY OF NEBRASKA		Nebraska	ARMY	RDTE/Other Research & Development-Basic Re		284
UNIVERSITY OF NEW MEXICO		New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		3,306
UNIVERSITY OF NORTH CAROLINA		N Carolina	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		650
UNIVERSITY OF NOTRE DAME		Indiana	ARMY	RDTE/Other Research & Development-Basic Re		95
UNIVERSITY OF NOTTINGHAM		UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re		95
UNIVERSITY OF OKLAHOMA		Oklahoma	ARMY	RDTE/Other Research & Development-Basic Re		325
COUNTRY TOTAL						141
UNIVERSITY OF NOTRE DAME		Indiana	ARMY	RDTE/Other Research & Development-Basic Re		84
UNIVERSITY OF NOTTINGHAM		UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re		84
UNIVERSITY OF OKLAHOMA		Oklahoma	ARMY	RDTE/Other Research & Development-Basic Re		81
COUNTRY TOTAL						60
UNIVERSITY OF NOTRE DAME		Indiana	ARMY	RDTE/Other Research & Development-Basic Re		173
UNIVERSITY OF NOTTINGHAM		UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re		75
UNIVERSITY OF OKLAHOMA		Oklahoma	ARMY	RDTE/Other Research & Development-Basic Re		144
COUNTRY TOTAL						

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	
AZ11 (CONTINUED)					
	UNIVERSITY OF OREGON	Oregon	ARMY	RDTE/Other Research & Development-Basic Re	\$ 200
	UNIVERSITY OF PENNSYLVANIA	Penn	ARMY	RDTE/Other Research & Development-Basic Re	1,254
	UNIVERSITY OF PITTSBURGH	Penn	ARMY	RDTE/Other Research & Development-Basic Re	384
	S Carolina	S Carolina	ARMY	RDTE/Other Research & Development-Basic Re	137
	CONTRACTOR TOTAL				521
	UNIVERSITY OF RHODE ISLAND	Rhode Isld	ARMY	RDTE/Other Research & Development-Basic Re	298
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Other Research & Development-Basic Re	2,220
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Research & Development-Basic Re	132
	UNIVERSITY OF SOUTH FLORIDA	Florida	OCE	RDTE/Other Research & Development-Basic Re	48
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY USAF	RDTE/Other Research & Development-Basic Re	1,980
		COUNTRY TOTAL			1,265
	UNIVERSITY OF SOUTHERN MISSISS	Miss	OCE	RDTE/Other Research & Development-Basic Re	2,245
	UNIVERSITY OF STRATCLYDE	UNITED KING	ARMY	RDTE/Other Research & Development-Basic Re	40
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY NAVY	RDTE/Other Research & Development-Basic Re	31
		COUNTRY TOTAL			1,968
	UNIVERSITY OF UTAH	Utah	ARMY	RDTE/Other Research & Development-Basic Re	266
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	498
	UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Research & Development-Basic Re	339
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Research & Development-Basic Re	2,105
	UNIVERSITY OF WYOMING	Wyoming	ARMY	RDTE/Other Research & Development-Basic Re	73
	UNIVERSITY RES FOUNDATION	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	738-
	VAN DYKE J G & ASSOCIATES	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	55

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZ11 (CONTINUED)						
	VANDERBILT UNIVERSITY THE	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re		100
	VECTOR MICRO	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		125
	VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		45
	VECTOR RESEARCH INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		50
	VECTORVISION CORPORATION	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		50
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Research & Development-Basic Re		199
	VIASAT INC	California	NAVY	RDTE/Other Research & Development-Basic Re		248
	VIRGINIA POLYTECHNIC INST/ST UNI	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		194
		NAVY	RDTE/Other Research & Development-Basic Re			406
		NAVY	RDTE/Other Research & Development-Basic Re			1,311
	COUNTRY TOTAL					1,717
	VISICOM LABORATORIES INC	California	NAVY	RDTE/Other Research & Development-Basic Re		50
	VISIDYNE INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re		65
	VISTA RESEARCH	California	ARMY	RDTE/Other Research & Development-Basic Re		30
	VITRO CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		210
	VREULS RESEARCH CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re		111
	WADDAN SYSTEMS	California	NAVY	RDTE/Other Research & Development-Basic Re		2,501
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Basic Re		219
		Virginia	NAVY	RDTE/Other Research & Development-Basic Re		50
	CONTRACTOR TOTAL					269
	WALLACE T H INC	Florida	USAF	RDTE/Other Research & Development-Basic Re		158
	WAHL ENGINEERING & TECHNOLOGY	Colorado	OCE	RDTE/Other Research & Development-Basic Re		76
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		551
	WEIDLINGER ASSOCIATES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		73

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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R&D	CONTRACTOR NAME	COUNTRY	DEPT	- - - - - R&D DESCRIPTION - - - - -	
AZ11 (CONTINUED)					
	WEIZMANN INSTITUTE THE	ISRAEL	ARMY	RDTE/Other Research & Development-Basic Re	\$ 207
	WEST CHESHIRE CLEANING SERVICE	UNITED KINGDOM	ARMY	RDTE/Other Research & Development-Basic Re	52
	WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re	1,789
	WESTINGHOUSE ELECTRIC CORP	Ohio	NAVY	RDTE/Other Research & Development-Basic Re	53
	Penn	ARMY	RDTE/Other Research & Development-Basic Re	102	
		NAVY	RDTE/Other Research & Development-Basic Re	622	
	COUNTRY TOTAL				724
	CONTRACTOR TOTAL				
	WESTON ROY F INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re	777
	WILLIAM & MARY COLLEGE OF VA	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	379
	WOODS HOLE OCEANOGRAPHIC INSTITUTE	Mass	OCE	RDTE/Other Research & Development-Basic Re	50
	WORCESTER POLYTECHNIC INSTITUTE	Mass	ARMY	RDTE/Other Research & Development-Basic Re	32
	WRIGHT STEPHEN G DR	Texas	OCE	RDTE/Other Research & Development-Basic Re	90
	YALE UNIVERSITY	Conn	ARMY	RDTE/Other Research & Development-Basic Re	40
	ZELIGSON COMPANY	Oklahoma	ARMY	RDTE/Other Research & Development-Basic Re	339
	ZERNOW TECHNICAL SERVICES INC	California	ARMY	RDTE/Other Research & Development-Basic Re	56
	ZEXTRON INC	California	NAVY	RDTE/Other Research & Development-Basic Re	198
	R&D TOTAL				50
	AZ12 2 G ENTERPRISES	California	NAVY	RDTE/Other Research & Development-Explor D	227,797
	A A I CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D	50
	ACCSYS TECHNOLOGY INC	California	NAVY	RDTE/Other Research & Development-Explor D	60
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Other Research & Development-Explor D	50
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Research & Development-Explor D	344
					274

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(AMOUNTS IN THOUSANDS)

R&D
CONTRACTOR NAME
AZ12 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$
ADVANCED TECHNOLOGY INC		Florida		NAVY RDTE/Other Research & Development-Explor D	50
ADVANCED TECHNOLOGY MTL S DEL	Conn			NAVY RDTE/Other Research & Development-Explor D	74
AERODYNE RESEARCH INC	Mass	USAF		RDTE/Other Research & Development-Explor D	692
AEROENVIRONMENT INC	California	NAVY		RDTE/Other Research & Development-Explor D	249
AKMAN ASSOCIATES INC	Maryland	ARMY		RDTE/Other Research & Development-Explor D	250
ALLEN CORPORATION OF AMERICA	Virginia	ARMY		RDTE/Other Research & Development-Explor D	193
ALLIED SIGNAL AEROSPACE CO	Arizona	ARMY		RDTE/Other Research & Development-Explor D	1,098
ALLIED SIGNAL INC	Arizona	ARMY		RDTE/Other Research & Development-Explor D	176
	Indiana	NAVY		RDTE/Other Research & Development-Explor D	41
CONTRACTOR TOTAL					217
ANRO ENGINEERING CONSULTANTS	Mass	ARMY		RDTE/Other Research & Development-Explor D	126
APPLIED AERODYNAMICS ASSOC	Maryland	NAVY		RDTE/Other Research & Development-Explor D	26
APPLIED RESEARCH ASSOC INC	N Carolina	ARMY		RDTE/Other Research & Development-Explor D	412
APPLIED SCIENCES INC	Ohio	NAVY		RDTE/Other Research & Development-Explor D	59
APPLIED TECHNOLOGY ASSOCIATES	New Mexico	ARMY		RDTE/Other Research & Development-Explor D	264
AQUANAUTICS CORPORATION	California	NAVY		RDTE/Other Research & Development-Explor D	510
ARETE ASSOCIATES	California	NAVY		RDTE/Other Research & Development-Explor D	991
ARL INC	D.C.	NAVY		RDTE/Other Research & Development-Explor D	847
	Virginia	NAVY		RDTE/Other Research & Development-Explor D	98
CONTRACTOR TOTAL					945
ARMAMENT SYSTEMS INC	Florida	USAF		RDTE/Other Research & Development-Explor D	1,311
	Maryland	ARMY		RDTE/Other Research & Development-Explor D	445
CONTRACTOR TOTAL					1,756

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	--R&D DESCRIPTION--
AZ12 (CONTINUED)				
	ATACS CORPORATION	California	ARMY	RDTE/Other Research & Development-Explorer D
	BAKER WILFRED ENGINEERING	Texas	NAVY	RDTE/Other Research & Development-Explorer D
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Research & Development-Explorer D
	BATTELLE DEVELOPMENT CORP	Ohio	NAVY	RDTE/Other Research & Development-Explorer D
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY NAVY	RDTE/Other Research & Development-Explorer D RDTE/Other Research & Development-Explorer D
	COUNTRY TOTAL			
	BBN SYSTEMS & TECHNOLOGIES	Mass	NAVY	RDTE/Other Research & Development-Explorer D
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Research & Development-Explorer D
	BECHTEL NATIONAL INC	California	ARMY	RDTE/Other Research & Development-Explorer D
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Research & Development-Explorer D
	BIO IMAGING RESEARCH INC	Illinois	ARMY	RDTE/Other Research & Development-Explorer D
	BOEING COMPANY THE	Oregon	NAVY	RDTE/Other Research & Development-Explorer D
	Penn	Penn	ARMY	RDTE/Other Research & Development-Explorer D
	WASHINGT	Washington	ARMY	RDTE/Other Research & Development-Explorer D
	CONTRACTOR TOTAL			
	BOLT BERANEK & NEWMAN INC	Mass	ARMY NAVY	RDTE/Other Research & Development-Explorer D RDTE/Other Research & Development-Explorer D
	COUNTRY TOTAL			
	BP AMERICA INC	Illinois	ARMY	RDTE/Other Research & Development-Explorer D
	CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Other Research & Development-Explorer D
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Other Research & Development-Explorer D
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Explorer D
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Other Research & Development-Explorer D
	CENTRAL WASH UNIV	Washington	ARMY	RDTE/Other Research & Development-Explorer D
	583			
	1,348			
	1,348			
	41			
	779			
	72			
	800			
	35			
	92			

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	(AMOUNTS IN THOUSANDS)	R&D DESCRIPTION
AZ12 (CONTINUED)					
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Other Research & Development-Explor D	\$ 52
	COE - TRUMAN TECHNOLOGIES INC	Illinois	ARMY	RDTE/Other Research & Development-Explor D	701
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Other Research & Development-Explor D	401
	COMMONWEALTH TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	248
	CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Other Research & Development-Explor D	145
	CORRPRO COMPANIES INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	36
	CREATIVE OPTICS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	397
	CRYSTAL SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	250
	CTA INCORPORATED	Colorado	NAVY	RDTE/Other Research & Development-Explor D	280
		Maryland	NAVY	RDTE/Other Research & Development-Explor D	303
	CONTRACTOR TOTAL				583
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Other Research & Development-Explor D	390
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Other Research & Development-Explor D	47
	DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Other Research & Development-Explor D	93
	DELFIN SYSTEMS	California	NAVY	RDTE/Other Research & Development-Explor D	50
	DELTA G CORP	California	NAVY	RDTE/Other Research & Development-Explor D	49
	DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Explor D	350
	DIGITAL WIZARDS INC	California	NAVY	RDTE/Other Research & Development-Explor D	162
	DOW CHEMICAL COMPANY THE	Michigan	ARMY	RDTE/Other Research & Development-Explor D	59
	DOW CORNING CORPORATION	Michigan	NAVY	RDTE/Other Research & Development-Explor D	50
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	199
	DREXEL UNIVERSITY	Penn	NAVY	RDTE/Other Research & Development-Explor D	58
	DUKE UNIVERSITY	N Carolina	USAF	RDTE/Other Research & Development-Explor D	90

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FISCAL YEAR 1989

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION
CONTINUED - AZ12 (CONTINUED)				
DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Explor D	\$ 511
E A I CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D	127
EASTPORT INTERNATIONAL INC	California	NAVY	RDTE/Other Research & Development-Explor D	359
	Maryland	NAVY	RDTE/Other Research & Development-Explor D	551
CONTRACTOR TOTAL				910
EDO CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Explor D	97
ELECTROMAGNETIC LAUNCH RES	Mass	ARMY	RDTE/Other Research & Development-Explor D	75
ENCORE COMPUTER CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Explor D	3,008
ENERGY COMPRESSION RES CORP	California	ARMY	RDTE/Other Research & Development-Explor D	144
ESSEX CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Explor D	41
FAILURE ANALYSIS ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explor D	100
FIBER MATERIALS INC	Maine	NAVY	RDTE/Other Research & Development-Explor D	200
FMG CORPORATION	Minnesota	ARMY	RDTE/Other Research & Development-Explor D	737
FORD AEROSPACE COMMCTIONS CORP	California	NAVY	RDTE/Other Research & Development-Explor D	251
FOSTER MILLER INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	65
GENERAL ELECTRIC CO	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	1,161
	New York	NAVY USAF	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	45 146
CONTRACTOR TOTAL				191
GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Other Research & Development-Explor D	1,352
GENERAL RESEARCH CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	500
GEO CENTERS INC	D.C.	NAVY	RDTE/Other Research & Development-Explor D	31
				370

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(AMOUNTS IN THOUSANDS)

R&D
CONTRACTOR NAME
COUNTRY
DEPT
R&D DESCRIPTION
AZ12 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
CONTRACTOR TOTAL					
	GEO DYNAMICS CORPORATION	Mass		NAVY RDTE/Other Research & Development-Explor D	95
	GEOPHEX LTD	California		NAVY RDTE/Other Research & Development-Explor D	465
	GEORGE MASON UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	100
	GOODRICH B F COMPANY THE	Virginia	ARMY	RDTE/Other Research & Development-Explor D	50
	H R TEXTRON INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	110
	HANNIGAN CONSTRUCTION CO	California	ARMY	RDTE/Other Research & Development-Explor D	43
	HLA ENGINEERS INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	740
	HONEYWELL INC	Texas	ARMY	RDTE/Other Research & Development-Explor D	59
	HONOMACH INC	Penn	NAVY	RDTE/Other Research & Development-Explor D	400
	HOWARD UNIVERSITY	Hawaii	NAVY	RDTE/Other Research & Development-Explor D	33
	HUGHES AIRCRAFT COMPANY	D.C.	NAVY	RDTE/Other Research & Development-Explor D	49
		California	ARMY USAF	RDTE/Other Research & Development-Explor D	185
				RDTE/Other Research & Development-Explor D	1,215
	COUNTRY TOTAL				1,400
	HUMAN RESOURCES ORGANIZATION	Kentucky	ARMY	RDTE/Other Research & Development-Explor D	581
	HUMRRO INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	45
	HYDROGEN CONSULTANTS INC	Colorado	NAVY	RDTE/Other Research & Development-Explor D	48
	I I T RESEARCH INSTITUTE	Illinois	ARMY NAVY	RDTE/Other Research & Development-Explor D	131
				RDTE/Other Research & Development-Explor D	156
	COUNTRY TOTAL				187
	CONTRACTOR TOTAL				276
	I MATH ASSOCIATES INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	463
				RDTE/Other Research & Development-Explor D	50

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	INSTITUTE FOR TECHNOLOGY DEV	Miss	ARMY	RDTE/Other Research & Development-Explor D	96
	INSTITUTE OF GAS TECHNOLOGY	Illinois	ARMY	RDTE/Other Research & Development-Explor D	169
	IOWA STATE UNIV SCNC	Iowa	ARMY	RDTE/Other Research & Development-Explor D	28
	JAYCOR	California	NAVY	RDTE/Other Research & Development-Explor D	246
	KAI SER AEROSPACE & ELEC CORP	California	NAVY	RDTE/Other Research & Development-Explor D	200
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Explor D	30
	KDC ISI JOINT VENTURE	California	NAVY	RDTE/Other Research & Development-Explor D	178
	KEO CONSULTANTS	Mass	USAF	RDTE/Other Research & Development-Explor D	69
	KINERGETICS INCORPORATED	California	ARMY	RDTE/Other Research & Development-Explor D	124
	KTECH CORPORATION	New Mexico	NAVY	RDTE/Other Research & Development-Explor D	50
	KURZ & ROOT COMPANY	Wisconsin	ARMY	RDTE/Other Research & Development-Explor D	280
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Other Research & Development-Explor D	250
	LARGE SCALE PROGRAMS INSTITUTE	Texas	ARMY	RDTE/Other Research & Development-Explor D	35
	LASER APPLICATIONS INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	50
	LIFE SYSTEMS INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	99
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	298
	LITTON SYSTEMS INC	Florida	ARMY	RDTE/Other Research & Development-Explor D	1,471
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Research & Development-Explor D	324
		Texas	ARMY	RDTE/Other Research & Development-Explor D	2,037
	CONTRACTOR TOTAL				2,361
	LOGISTICS MANAGEMENT ENRG	Maryland	NAVY	RDTE/Other Research & Development-Explor D	28
		Penn	ARMY	RDTE/Other Research & Development-Explor D	80
	CONTRACTOR TOTAL				108

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZ12 (CONTINUED)						
	LORAL CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	\$	289
	MAGNAVOX GOVT & INDSTRL CLCTR	New Jersey	ARMY	RDTE/Other Research & Development-Explor D		1,272
	MANTECH INTERNATIONAL CORP	Virginia	NAVY	RDTE/Other Research & Development-Explor D		255
	MARKO MATERIALS INC	Mass	NAVY	RDTE/Other Research & Development-Explor D		57
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D		55
	MARTINGALE RESEARCH CORP	Texas	NAVY	RDTE/Other Research & Development-Explor D		49
	MASSACHUSETTS UNIVERSITY OF	Mass	ARMY	RDTE/Other Research & Development-Explor D		400
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Other Research & Development-Explor D		144
	MC DONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D		280
		Missouri	NAVY US, F	RDTE/Other Research & Development-Explor D		165
				RDTE/Other Research & Development-Explor D		866
				COUNTRY TOTAL		1,031
						1,311
	MC DONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Other Research & Development-Explor D		2,377
	MC Q ASSOCIATES	Virginia	NAVY	RDTE/Other Research & Development-Explor D		49
	MEDICAL SYSTEMS SUPPORT INC	Illinois	ARMY	RDTE/Other Research & Development-Explor D		73
	MEMORY METALS CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Explor D		49
	MOVING PICTURES	Illinois	ARMY	RDTE/Other Research & Development-Explor D		48
	MSNW INC	California	NAVY	RDTE/Other Research & Development-Explor D		134
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D		45
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Research & Development-Explor D		50
	NEVADA ENGRG & TECHNOLOGY	California	NAVY	RDTE/Other Research & Development-Explor D		150
	NEW ENGLAND RESEARCH INC	Vermont	USAF	RDTE/Other Research & Development-Explor D		200
	NEW MEXICO INST OF MTN TCHNLGY	New Mexico	ARMY	RDTE/Other Research & Development-Explor D		213

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
A712 (CONTINUED)						
	NICHOLS RESEARCH CORPORATION	Alabama	NAVY	RDTE/Other Research & Development-Explorer D	413	
	NORTH CAROLINA A & T UNIV	N Carolina	NAVY	RDTE/Other Research & Development-Explorer D	32	
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Research & Development-Explorer D	25	
	OKLAHOMA STATE UNIVERSITY	Oklahoma	USAF	RDTE/Other Research & Development-Explorer D	209	
	OPTIMETRICS INC	Virginia	ARMY	RDTE/Other Research & Development-Explorer D	111	
	OPTRA INC	Mass	NAVY	RDTE/Other Research & Development-Explorer D	47	
	OPTRON SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Explorer D	119	
	OREGON STATE UNIVERSITY	Oregon	USAF	RDTE/Other Research & Development-Explorer D	124	
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Explorer D	49	
	OSBORNE ALLEN ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explorer D	554	
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Other Research & Development-Explorer D	76	
	PARKE MATHEMATICAL LABS INC	Mass	USAF	RDTE/Other Research & Development-Explorer D	484	
	PENNSYLVANIA STATE UNIV THE	Penn	ARMY	RDTE/Other Research & Development-Explorer D	170	
	PHOTO METRIC INC	Mass	USAF	RDTE/Other Research & Development-Explorer D	458	
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explorer D	753	
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Other Research & Development-Explorer D	549	
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Other Research & Development-Explorer D	144	
	PHYSICS MATHEMATICS COMPUTER	New Mexico	NAVY	RDTE/Other Research & Development-Explorer D	33	
	POTOMAC RESEARCH INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Explorer D	741	
	POWERTRONIC SYSTEMS INC	Louisiana	NAVY	RDTE/Other Research & Development-Explorer D	87	
	Q DOT INC	Colorado	NAVY	RDTE/Other Research & Development-Explorer D	46	
	QUANTEX CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explorer D	262	
	QUANTIC INDUSTRIES INC	California	ARMY	RDTE/Other Research & Development-Explorer D	315	

DEPARTMENT OF DEFENSE

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
QUANTUM RESEARCH SERVICES INC	N Carolina	NAVY	RDTE/Other Research & Development-Explorer D	\$	61
QUEST RESEARCH CORPORATION	Ohio	USAF	RDTE/Other Research & Development-Explorer D		100
RADANT SYSTEMS INC	Mass	USAF	RDTE/Other Research & Development-Explorer D		188
RADEX INC	Mass	USAF	RDTE/Other Research & Development-Explorer D		346
RECOGNITION CONCEPTS INC	Virginia	NAVY	RDTE/Other Research & Development-Explorer D		111
ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Other Research & Development-Explorer D		30
	NAVY	RDTE/Other Research & Development-Explorer D			51
COUNTRY TOTAL					
RUTGERS THE STATE UNIVERSITY	New Jersey	ARMY	RDTE/Other Research & Development-Explorer D		81
S & D DYNAMICS INC	Frigida	ARMY	RDTE/Other Research & Development-Explorer D		137
S S G INC	Mass	USAF	RDTE/Other Research & Development-Explorer D		78
SACHS FREEMAN ASSOCIATES INC	D C	NAVY	RDTE/Other Research & Development-Explorer D		107
SAFETY CONSULTING ENGINEERS	Illinois	NAVY	RDTE/Other Research & Development-Explorer D		351
SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Explorer D		46
SATT COMMUNICATION AB	SWEDEN	ARMY	RDTE/Other Research & Development-Explorer D		737
SCHMIDT & ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Explorer D		161
SCIENCE & ENGINEERING ASSOC	New Mexico	NAVY	RDTE/Other Research & Development-Explorer D		102
SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Research & Development-Explorer D		49
SCIENCE APPLICATIONS INT'L CORP	California	ARMY	RDTE/Other Research & Development-Explorer D		393
	Virginia	ARMY	RDTE/Other Research & Development-Explorer D		266
	NAVY	RDTE/Other Research & Development-Explorer D			140
	NAVY	RDTE/Other Research & Development-Explorer D			135
COUNTRY TOTAL					
CONTRACTOR TOTAL					
SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Research & Development-Explorer D		275
					541
					400

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZ12 (CONTINUED)						
	SEMETEX CORP	California	NAVY	RDTE/Other Research & Development-Explor D	\$ 56	
	SILICON DESIGNS INC	Washington	NAVY	RDTE/Other Research & Development-Explor D	180	
	SOCIETY OF AUTO ENGINEERS	Penn	ARMY	RDTE/Other Research & Development-Explor D	149	
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	NAVY	RDTE/Other Research & Development-Explor D	50	
	SOUTHERN RESEARCH INSTITUTE	Alabama	NAVY	RDTE/Other Research & Development-Explor D	156	
	SPARTA INC	California	ARMY	RDTE/Other Research & Development-Explor D	489	
	SPECTRUM ENGINEERING	California	NAVY	RDTE/Other Research & Development-Explor D	50	
	SPIRE CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Explor D	50	
	S1 JOE MINERALS CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Explor D	1,348	
	SUBSEA ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explor D	80	
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Other Research & Development-Explor D	75	
	SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Research & Development-Explor D	231	
	SERVICE ENGINEERING CO INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	26	
	SYMBIOTECH INCORPORATED	Conn	NAVY	RDTE/Other Research & Development-Explor D	56	
	SYMBOTECH INC	Conn	ARMY	RDTE/Other Research & Development-Explor D	106	
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Explor D	56	
	SYSTEM DEVELOPMENT CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Explor D	52	
	TANNER RESEARCH INC	California	NAVY	RDTE/Other Research & Development-Explor D	50	
	TECH RESEARCH GROUP INC	Rhode Isld	ARMY	RDTE/Other Research & Development-Explor D	81	
	TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	596	
	TERA COMPUTER CO	Washington	ARMY	RDTE/Other Research & Development-Explor D	1,786	
	TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Other Research & Development-Explor D	100	
			USAF	RDTE/Other Research & Development-Explor D	49	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

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R&D
CONTRACTOR NAME

COUNTRY

DEPT

R&D DESCRIPTION

AZ12 (CONTINUED)

COUNTRY TOTAL				\$	149
TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Other Research & Development-Explorer D		55
TOYON RESEARCH CORP	California	NAVY	RDTE/Other Research & Development-Explorer D		50
TRACER TECHNOLOGIES INC	Mass	NAVY	RDTE/Other Research & Development-Explorer D		75
TRACOR AEROSPACE INC	Texas	NAVY	RDTE/Other Research & Development-Explorer D		249
TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Explorer D		49
TRW INC	Virginia	ARMY	RDTE/Other Research & Development-Explorer D		770
UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Other Research & Development-Explorer D		100
	Florida	USAF	RDTE/Other Research & Development-Explorer D		150
			CONTRACTOR TOTAL		250
UNIVERSAL ENERGY SYSTEMS INC	Ohio	NAVY	RDTE/Other Research & Development-Explorer D		47
UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Research & Development-Explorer D		64
UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Other Research & Development-Explorer D		625
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Research & Development-Explorer D		2435
UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Other Research & Development-Explorer D		80
UNIVERSITY OF NEW MEXICO	New Mexico	ARMY	RDTE/Other Research & Development-Explorer D		55
UNIVERSITY OF OKLAHOMA	Oklahoma	ARMY	RDTE/Other Research & Development-Explorer D		120
UNIVERSITY OF PUERTO RICO	Puerto Rico	NAVY	RDTE/Other Research & Development-Explorer D		39
UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Other Research & Development-Explorer D		50
UTAH BIORESEARCH INC	Utah	NAVY	RDTE/Other Research & Development-Explorer D		49
VEDA INCORPORATED	Maryland	NAVY	RDTE/Other Research & Development-Explorer D		50
WAGNER DANIEL H ASSOCIATES	Virginia	NAVY	RDTE/Other Research & Development-Explorer D		100
WALLACE T H INC	Florida	USAF	RDTE/Other Research & Development-Explorer D		57

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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT R&D DESCRIPTION
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AZ12 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
CONTRACTOR TOTAL						
	WASHINGTON UNIVERSITY	Missouri	USAF	RDTE/Other Research & Development-Explor D	\$ 50	50
	WESTINGHOUSE ELECTRIC CORP	Penn	ARMY	RDTE/Other Research & Development-Explor D	107	107
			NAVY	RDTE/Other Research & Development-Explor D	84	84
				COUNTRY TOTAL	107	107
					81	81
	WILLIAMS INTERNATIONAL CORP	Michigan	NAVY	RDTE/Other Research & Development-Explor D	188	188
	WOODWARD CLYDE CONSULTANTS	Colorado	ARMY	RDTE/Other Research & Development-Explor D	45	45
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Research & Development-Explor D	101	101
	WYLE LABORATORIES	California	USAF	RDTE/Other Research & Development-Explor D	160	160
	R&D TOTAL				80	80
					70,192	70,192
AZ13	A P A OPTICS INC	Minnesota	NAVY	RDTE/Other Research & Development-Advanced	411	411
	ADVANCED TECHNOLOGY MTL'S DEL	Conn	ARMY	RDTE/Other Research & Development-Advanced	97	97
	ALLEN CORPORATION OF AMERICA	Virginia	ARMY	RDTE/Other Research & Development-Advanced	265	265
	ANACAPTA SCIENCES INC	California	NAVY	RDTE/Other Research & Development-Advanced	343	343
	ANALYTIC SCIENCES CORP THE	Florida	USAF	RDTE/Other Research & Development-Advanced	430	430
		Mass	NAVY	RDTE/Other Research & Development-Advanced	305	305
				COUNTRY TOTAL	735	735
	APPLIED SCIENCE ASSOCIATES	Penn	ARMY	RDTE/Other Research & Development-Advanced	119	119
	ARMAMENT SYSTEMS INC	Maryland	ARMY	RDTE/Other Research & Development-Advanced	68	68
	BALL CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	100	100
	BARR ASSOCIATES INCORPORATED	Mass	ARMY	RDTE/Other Research & Development-Advanced	470	470
	BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Other Research & Development-Advanced	2,419	2,419

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	250
AZ13 (CONTINUED)						
	BELL HELICOPTER TEXTRON INC	Texas		RDTE/Other Research & Development-Advanced	\$	540
	BOEING COMPANY THE	Penn	ARMY	RDTE/Other Research & Development-Advanced		540
	C V D INCORPORATED	Mass	USAF	RDTE/Other Research & Development-Advanced	2	212
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Other Research & Development-Advanced	4	215
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Other Research & Development-Advanced	24	295
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Advanced	35	
	DAE DALEAN INC	Maryland	NAVY	RDTE/Other Research & Development-Advanced		95
	DEFENSE SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Advanced	78	
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Advanced		150
	DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Advanced	30	
	ESSEX COMPUTER SERVICE INC	California	NAVY	RDTE/Other Research & Development-Advanced		30
	EXTREL CORPORATION	Penn	ARMY	RDTE/Other Research & Development-Advanced		262
	FABEL SYS CORP	Florida	USAF	RDTE/Other Research & Development-Advanced	2	473
	FIBER MATERIALS INC	Arkansas	ARMY	RDTE/Other Research & Development-Advanced	41	
		Mass	ARMY	RDTE/Other Research & Development-Advanced	149	
	CONTRACTOR TOTAL					180
	FLUID SCIENCES INC	Penn	NAVY	RDTE/Other Research & Development-Advanced	46	
	FORD AEROSPACE CONNECTIONS CORP	California	NAVY	RDTE/Other Research & Development-Advanced		265
	GENERAL ATOMICS	California	ARMY	RDTE/Other Research & Development-Advanced	1	170
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced		640
	GENERAL ELECTRIC CO	Mass	ARMY	RDTE/Other Research & Development-Advanced		632
	GEO CENTERS INC	Mass	NAVY	RDTE/Other Research & Development-Advanced		180
	GNB INCORPORATED	Penn	NAVY	RDTE/Other Research & Development-Advanced		670

Source: DOD
Note: R&D includes development, engineering, procurement, construction, research, and related activities.

Source: DOD
Note: R&D includes development, engineering, procurement, construction, research, and related activities.

DEPARTMENT OF DEFENSE
PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZ13 (CONTINUED)						
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Other Research & Development-Advanced		1,270
	HONEYWELL INC	Minnesota	NAVY	RDTE/Other Research & Development-Advanced		225
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Research & Development-Advanced		145
		Minnesota	NAVY	RDTE/Other Research & Development-Advanced		409
	CONTRACTOR TOTAL					554
	HUMAN RSRCS RES ORGANIZATION	Virginia	NAVY	RDTE/Other Research & Development-Advanced		147
	IIT RESEARCH INSTITUTE	Maryland	USAF	RDTE/Other Research & Development-Advanced		37
		Penn	USAF	RDTE/Other Research & Development-Advanced		50
	CONTRACTOR TOTAL					87
	I S T INC	Washington	NAVY	RDTE/Other Research & Development-Advanced		3,869
	INTERNATIONAL BUS MCHS CORP	New York	NAVY	RDTE/Other Research & Development-Advanced		15,709
	JAYCOR	Virginia	ARMY	RDTE/Other Research & Development-Advanced		151
	KANSAS STATE UNIVERSITY	Kansas	ARMY	RDTE/Other Research & Development-Advanced		25
	KDI PRECISION PRODUCTS INC	Ohio	ARMY	RDTE/Other Research & Development-Advanced		2,405
	LINEAR MEASUREMENTS INC	California	NAVY	RDTE/Other Research & Development-Advanced		38
	LITTON SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Advanced		805
	LOCKHEED MISSILES & SPACE CO	Alabama	USAF	RDTE/Other Research & Development-Advanced		842
		Texas	ARMY	RDTE/Other Research & Development-Advanced		2,535
	CONTRACTOR TOTAL					3,377
	LOGICON INC	California	ARMY	RDTE/Other Research & Development-Advanced		100
	MARTIN MARIETTA CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Advanced		250
	MASSACHSETTS INST OF TCHNOLOGY	Mass	NAVY	RDTE/Other Research & Development-Advanced		30
			USAF	RDTE/Other Research & Development-Advanced		378,743

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D

CONTRACTOR NAME

COUNTRY

DEPT

R&D DESCRIPTION

AZ13 (CONTINUED)

COUNTRY TOTAL

MC CONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	\$ 378,773
MC DONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Other Research & Development-Advanced	170
MEDICAL SYSTEMS SUPPORT INC	Virginia	ARMY	RDTE/Other Research & Development-Advanced	190
MSNW INC	California	ARMY	RDTE/Other Research & Development-Advanced	93
O A O CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Advanced	55
OLIN CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Advanced	200
OPTICS ONE INC	California	NAVY	RDTE/Other Research & Development-Advanced	835
ORICON CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	49
P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Other Research & Development-Advanced	295
PATHFINDER SOFTWARE INC	Colorado	NAVY	RDTE/Other Research & Development-Advanced	50
R & D ASSOCIATES	California	USAF	RDTE/Other Research & Development-Advanced	224
RAYTHEON SERVICE COMPANY	New Mexico	ARMY	RDTE/Other Research & Development-Advanced	147
RGI INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Advanced	478
S T RESEARCH CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Advanced	159
S T SYSTEMS CORPORATION	D C	USAF	RDTE/Other Research & Development-Advanced	100
SACHS FREEMAN ASSOCIATES INC	D C	NAVY	RDTE/Other Research & Development-Advanced	84
SCHONSTEDT INSTRUMENT CO	Virginia	NAVY	RDTE/Other Research & Development-Advanced	1,578
SCIENCE & ENGINEERING ASSOC	New Mexico	ARMY	RDTE/Other Research & Development-Advanced	65
SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Other Research & Development-Advanced	49
	Florida	NAVY	RDTE/Other Research & Development-Advanced	740
CONTRACTOR TOTAL				173
SIMULASER CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	413

FEDERAL PURCHASE AGREEMENT
FOR THE FISCAL YEAR 1989
THE GOVERNMENT IS THE BUYER

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Other Research & Development-Advanced	46	
SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Advanced	52	
SUNSTRAND CORPORATION	California	ARMY	RDTE/Other Research & Development-Advanced	1,249	
SUNREZ CORPORATION	California	ARMY	RDTE/Other Research & Development-Advanced	74	
SYSCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	714	
TECOLOTE RESEARCH INC	California	NAVY	RDTE/Other Research & Development-Advanced	214	
TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Other Research & Development-Advanced	200	
TEXAS RESEARCH INSTITUTE INC	Texas	NAVY	RDTE/Other Research & Development-Advanced	97	
TG BAUER ASS	Virginia	NAVY	RDTE/Other Research & Development-Advanced	2,841	
THERMACORE INC	Penn	USAF	RDTE/Other Research & Development-Advanced	246	
THERIMEDICS INC	Mass	ARMY	RDTE/Other Research & Development-Advanced	252	
UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Advanced	367	
UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Other Research & Development-Advanced	550	
UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Research & Development-Advanced	130	
UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Advanced	4,634	
	USAF	RDTE/Other Research & Development-Advanced	1,568		
COUNTRY TOTAL					
JUNIVERSITY OF MARYLAND	Maryland	ARMY NAVY	RDTE/Other Research & Development-Advanced	80	
		RDTE/Other Research & Development-Advanced	40		
COUNTRY TOTAL					
WYLE LABORATORIES	California	USAF	RDTE/Other Research & Development-Advanced	120	
R&D TOTAL					
AZ14 ADVANCED DIGITAL SYSTEM INC	California	NAVY	RDTE/Other Research & Development-Engr Dev	217	
ADVANCED MECHANICAL TECHNOLOGY	Mass	ARMY	RDTE/Other Research & Development-Engr Dev	151	

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ14 (CONTINUED)					
	ALLEN CORPORATION OF AMERICA	Virginia		RDTE/Other Research & Development-Engr Dev	\$ 180
	BAND LAVIS & ASSOCIATES INC	Maryland	NAVY	RDTE/Other Research & Development-Engr Dev	149
	BATTELLE MEMORIAL INSTITUTE	Ohio	NAVY	RDTE/Other Research & Development-Engr Dev	220
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	233
	BOEING COMPANY THE	Washington	USAF	RDTE/Other Research & Development-Engr Dev	3,221
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Research & Development-Engr Dev	4,442
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Engr Dev	2,397
	DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Engr Dev	250
	E M I TECHNOLOGIES INC	New Mexico	USAF	RDTE/Other Research & Development-Engr Dev	56
	ELECTROSPACE SYSTEMS INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	4,107
	ENVIRONMENTAL RESEARCH	Michigan	USAF	RDTE/Other Research & Development-Engr Dev	1,730
	ESSEX CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Engr Dev	57
	FEMME COMP INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	3,373
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Engr Dev	44
	GENERAL ELECTRIC CO	Penn	ARMY	RDTE/Other Research & Development-Engr Dev	314
	GEORGIA STATE UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Engr Dev	76
	GEORGIA TECH RESEARCH INST	Georgia	ARMY	RDTE/Other Research & Development-Engr Dev	1,300
	HOKENSON COMPANY	California	USAF	RDTE/Other Research & Development-Engr Dev	260
	HUGHES AIRCRAFT COMPANY	Arizona	NAVY	RDTE/Other Research & Development-Engr Dev	181
		California	USAF	RDTE/Other Research & Development-Engr Dev	220
	CONTRACTOR TOTAL				401
	INCOSYMM INC	California	USAF	RDTE/Other Research & Development-Engr Dev	42-
	K C RESEARCH	Colorado	NAVY	RDTE/Other Research & Development-Engr Dev	49

FEDERAL CONTRACTOR'S
RESEARCH & DEVELOPMENT ACTIVITIES
FOR THE FISCAL YEAR 1989

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25 000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	%
AZ14 (CONTINUED)						
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Research & Development-Engr Dev	\$ 61	.61
	MARITIME DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development-Engr Dev	3	.3
	MC DONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Other Research & Development-Engr Dev	384	384
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Other Research & Development-Engr Dev	1 525	1 525
	MITRE CORPORATION	Mass	USAF	RDTE/Other Research & Development-Engr Dev	381	144
	MULTIHULL DEVELOPMENT ASSOC	California	NAVY	RDTE/Other Research & Development-Engr Dev	78	78
	ORION INTL TECHNOLOGIES	New Mexico	ARMY	RDTE/Other Research & Development-Engr Dev	841	841
	PHASEX CORPORATION	Mass	USAF	RDTE/Other Research & Development-Engr Dev	69	69
	PHELAN COMPUTING INC	California	NAVY	RDTE/Other Research & Development-Engr Dev	40	40
	QUICK REACTION CORP	California	NAVY	RDTE/Other Research & Development-Engr Dev	353	353
	RUPPRECHT & PATASHNIK CO INC	New York	ARMY	RDTE/Other Research & Development-Engr Dev	350	350
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Research & Development-Engr Dev	487	487
		Florida	NAVY	RDTE/Other Research & Development-Engr Dev	51	51
	CONTRACTOR TOTAL					1 658
	SCIENTIFIC TECHNOLOGY INC	Maryland	ARMY	RDTE/Other Research & Development-Engr Dev	504	504
	SIGMA RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Engr Dev	108	108
	SYSTEMS PLANNING CORP	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	146	146
	TACAN CORPORATION	California	ARMY	RDTE/Other Research & Development-Engr Dev	140	140
	TEXAS RESEARCH INSTITUTE	Texas	NAVY	RDTE/Other Research & Development-Engr Dev	97	97
	TITAN SYSTEMS INC	GERMANY F	ARMY	RDTE/Other Research & Development-Engr Dev	816	816
	TRW INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	370	370
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Engr Dev	86	86
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	271	271

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
AZ14 (CONTINUED)					
	VEDA INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development -Engr Dev	\$ 384
	WALLACE T H INC	Florida	USAF	RDTE/Other Research & Development -Engr Dev	46
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Other Research & Development -Engr Dev	377
			USAF	RDTE/Other Research & Development -Engr Dev	24 914
				COUNTRY TOTAL	25 291
	XETRON CORPORATION	Ohio	USAF	RDTE/Other Research & Development -Engr Dev	267
	R&D TOTAL				437 426
AZ15	AGFA COMPUGRAPHIC CORPORATION	Florida	NAVY	RDTE/Other Research & Development -Op Sys D	77
	ATOM SCIENCES INC	Tennessee	USAF	RDTE/Other Research & Development -Op Sys D	198
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development -Op Sys D	143
	BDM CORPORATION	New Mexico	ARMY	RDTE/Other Research & Development -Op Sys D	104
	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Research & Development -Op Sys D	240
	BOOZ ALLEN & HAMILTON INC	D C.	ARMY	RDTE/Other Research & Development -Op Sys D	182
	CAS INC	Alabama	ARMY	RDTE/Other Research & Development -Op Sys D	279
	CHEMICAL DELIVERY SYSTEMS INC	Ohio	ARMY	RDTE/Other Research & Development -Up Sys D	50
	COE-TRUMAN TECHNOLOGIES INC	Illinois	ARMY	RDTE/Other Research & Development -Op Sys D	171
	CONSULTANTS CHOICE INC	Georgia	ARMY	RDTE/Other Research & Development -Op Sys D	163
	DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development -Op Sys D	42
	GENERAL RESEARCH CORPORATION	California	NAVY	RDTE/Other Research & Development -Op Sys D	30
	GTE GOVERNMENT SYSTEMS CORP	California	ARMY	RDTE/Other Research & Development -Op Sys D	90
	HARRIS CORPORATION	Florida	ARMY	RDTE/Other Research & Development -Op Sys D	4 450
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Other Research & Development -Op Sys D	53 352
		New York	USAF	RDTE/Other Research & Development -Op Sys D	385

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

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(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME COUNTRY DEPT R&D DESCRIPTION

AZ15 (CONTINUED)

		CONTRACTOR TOTAL	\$	\$ 53,758
KETRON INC	Maryland	ARMY RDTE/Other Research & Development-Op Sys D	893	
LOCKHEED ELECTRONICS CO	New Mexico	ARMY RDTE/Other Research & Development-Op Sys D	12,917	
LOGISTICS MGT INSTITUTE	Maryland	ARMY RDTE/Other Research & Development-Op Sys D	16,321	
MANDEX INC	Arizona	ARMY RDTE/Other Research & Development-Op Sys D	1,332	
MARTIN MARIETTA CORPORATION	Maryland	USAF RDTE/Other Research & Development-Op Sys D	149	
MICRION CORPORATION	Mass	NAVY RDTE/Other Research, & Development-Op Sys D	1,340	
NEW HAMPSHIRE UNIVERSITY SYS	N. H.	ARMY RDTE/Other Research & Development-Op Sys D	39	
OFFICE OF THE FUTURE INC	New Jersey	ARMY RDTE/Other Research & Development-Op Sys D	640	
OKLAHOMA STATE UNIVERSITY	Oklahoma	USAF RDTE/Other Research & Development-Op Sys D	96	
OVERLOOK SYSTEMS TECHNOLOGIES	Virginia	ARMY RDTE/Other Research & Development-Op Sys D	576	
P E I ASSOCIATES INC	Alabama	ARMY RDTE/Other Research & Development-Op Sys D	68	
PRESEARCH INCORPORATED	Virginia	NAVY RDTE/Other Research & Development-Op Sys D	476	
PRINCETON UNIVERSITY	New Jersey	ARMY RDTE/Other Research & Development-Op Sys D	142	
R J O ENTERPRISES INC	Mass	USAF RDTE/Other Research & Development-Op Sys D	173	
RAYTHEON COMPANY	Mass	ARMY RDTE/Other Research & Development-Op Sys D	5 450	
RESOURCE MANAGEMENT INTL	Virginia	ARMY RDTE/Other Research & Development-Op Sys D	40	
S T SYSTEMS CORPORATION	D C	USAF RDTE/Other Research & Development-Cp Sys D	102	
SPEX INDUSTRIES INC	New Jersey	NAVY RDTE/Other Research & Development-Op Sys D	36	
STRUCTURAL INTEGRITY ASSOC INC	California	ARMY RDTE/Other Research & Development-Op Sys D	48	
SURVICE ENGINEERING CO INC	Maryland	ARMY RDTE/Other Research & Development-Cp Sys D	421	
UNITED TECHNOLOGIES CORP	Conn	NAVY RDTE/Other Research & Development-Op Sys D	475	
	Florida	ARMY RDTE/Other Research & Development-Op Sys D	1 296	

Fiscal Year 1989
Research and Development Contracts
Over \$25,000

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	1 821
AZ15 (CONTINUED)						
	CONTRACTOR TOTAL					25
	UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Research & Development -Op Sys D		147
	WALLACE T H INC	Florida	USAF	RDTE/Other Research & Development -Op Sys D		39
	WAYNE STATE UNIVERSITY	Michigan	NAVY	RDTE/Other Research & Development -Op Sys D		473
	WOODS HOLE OCNGRPHIC INSTIUTE	Mass	NAVY	RDTE/Other Research & Development -Op Sys D		473
	R&D TOTAL					103 432
AZ16	A P A OPTICS INC	Minnesota	ARMY	RDTE/Other Research & Development -Mgmt & S		200
	A T S S INC	California	USAF	RDTE/Other Research & Development -Mgmt & S		49
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Research & Development -Mgmt & S		98
	ADVANCE SYSTEMS TECHNOLOGY	Maryland	NAVY	RDTE/Other Research & Development -Mgmt & S		30
	ADVANCED RESOURCE DEV CORP	Maryland	USAF	RDTE/Other Research & Development -Mgmt & S		49
	ADVANCED SYSTEMS TECHNOLOGIES	Colorado	NAVY	RDTE/Other Research & Development -Mgmt & S		461
	ADVANCED TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Research & Development -Mgmt & S		121
	AERON CORPORATION	New Jersey	USAF	RDTE/Other Research & Development -Mgmt & S		417
	AEROCHEM RESEARCH LABORATORIES	New Jersey	NAVY	RDTE/Other Research & Development -Mgmt & S		492
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Other Research & Development -Mgmt & S		39
	ALPHATECH INC	Mass	NAVY	RDTE/Other Research & Development -Mgmt & S		49
	AMERICAN RESEARCH CORP VA	Virginia	NAVY	RDTE/Other Research & Development -Mgmt & S		49
	AMERICAN SYSTEMS ENGRG CORP	Virginia	NAVY	RDTE/Other Research & Development -Mgmt & S		67
	AMPARO CORPORATION	New Mexico	USAF	RDTE/Other Research & Development -Mgmt & S		42
	ANALYSIS & SIMULATION INC	New York	ARMY	RDTE/Other Research & Development -Mgmt & S		242
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Other Research & Development -Mgmt & S		771
	ANALYTICAL SOFTWARE INC	Texas	ARMY	RDTE/Other Research & Development -Mgmt & S		46

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$
AZ16 (CONTINUED)					
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Other Research & Development-Mgmt & S	67
		N Carolina	USAF	RDTE/Other Research & Development-Mgmt & S	400
	CONTRACTOR TOTAL				467
	APTIEK INC	Colorado	USAF	RDTE/Other Research & Development-Mgmt & S	49
	ARKLINE RESEARCH	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	54
	ATLANTIC RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Other Research & Development-Mgmt & S	97
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S	90
	AUTOMATED DYNAMICS CORP	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	246
	AVCO RESEARCH LABORATORY INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	170
	BAKER WILFRED ENGINEERING	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	46
	BATTERY INTERNATIONAL INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S	55
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	2,061
	BELTRAN ASSOCIATES INC	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	49
	BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Mgmt & S	289
	C CUBED CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	111
	CACI INC	N Carolina	ARMY	RDTE/Other Research & Development-Mgmt & S	294
	CACI INC PRODUCTS CO	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	87
	CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	77
		Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S	51,776
	CONTRACTOR TOTAL				51,853
	CAMBRIDGE HYDRO-DYNAMICS INC	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	48
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Other Research & Development-Mgmt & S	250
	CAPE COD RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	61

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZ16 (CONTINUED)						
	CARLOW ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	\$	156
	CARNEGIE GROUP INC	Penn	ARMY	RDTE/Other Research & Development-Mgmt & S		370
	CFD RESEARCH CORP	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S		50
	CHARLES RIVER ANALYTICS INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S		50
	COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Other Research & Development-Mgmt & S		50
	COMPUTER ASSOCIATES INTL	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		174
	COMPUTER COMMAND CTRL COMPANY	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S		465
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		1
	CONSULTANTS CHOICE INC	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S		36
	COOPERS & LYBRAND	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		391
	CRYSTAL SYSTEMS INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S		400
	DECISION SCIENCE APPLICATIONS	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		188
	DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		92
	DELEX SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S		322
	DELFIN SYSTEMS	California	ARMY	RDTE/Other Research & Development-Mgmt & S		228
	DIGITAL EQUIPMENT CORPORATION	Georgia	USAF	RDTE/Other Research & Development-Mgmt & S		189
	DYNCORP APPLIED TECHNOLOGY	Arizona	ARMY	RDTE/Other Research & Development-Mgmt & S		6
	E I C LABORATORY INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S		968
	EAGLE TECHNOLOGY INC	Florida	USAF	RDTE/Other Research & Development-Mgmt & S		50
	ENGINEERING RESEARCH ASSOC	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S		85
	ENVIRONMENTAL RESEARCH	Michigan	NAVY	RDTE/Other Research & Development-Mgmt & S		49
	ESSEX CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		76
	EXFLUOR RESEARCH CORPORATION	Texas	USAF	RDTE/Other Research & Development-Mgmt & S		200
						70

Department of Defense
 Defense Contract Management Agency
 Defense Contract Audit Agency

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989

(AMOUNTS IN THOUSANDS)

AZ16 (CONTINUED)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION
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				\$	
R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	
(AMOUNTS IN THOUSANDS)					
	FAILURE ANALYSIS ASSOCIATES	Mass		USAF RDTE/Other Research & Development -Mgmt & S	\$ 52
	FOSTER MILLER INC	Mass	ARMY USAF	RDTE/Other Research & Development -Mgmt & S RDTE/Other Research & Development -Mgmt & S	69 63
				COUNTRY TOTAL	132
	GEOMET INC	Maryland	ARMY	RDTE/Other Research & Development -Mgmt & S	272
	GEORGIA TECH RESEARCH INST	Florida	USAF	RDTE/Other Research & Development -Mgmt & S	180
	GINER INC	Mass	NAVY	RDTE/Other Research & Development -Mgmt & S	57
	GUPTA PRADEEP K INC	New York	USAF	RDTE/Other Research & Development -Mgmt & S	49
	HADLOCK FRANK & ASSOCIATES	Tennessee	NAVY	RDTE/Other Research & Development -Mgmt & S	49
	HAMPTON UNIVERSITY	Virginia	NAVY	RDTE/Other Research & Development -Mgmt & S	129
	HARRIS GROUP THE INC	Virginia	USAF	RDTE/Other Research & Development -Mgmt & S	50
	HILTON SYSTEMS INC	New Jersey	ARMY	RDTE/Other Research & Development -Mgmt & S	284
	HONEYWELL INC	Penn	NAVY	RDTE/Other Research & Development -Mgmt & S	35
	HUGHES ASSOCIATES INC	Maryland	USAF	RDTE/Other Research & Development -Mgmt & S	400
	I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Research & Development -Mgmt & S	66
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Research & Development -Mgmt & S	1,356
	IMAGINATION WORKS THE	California	NAVY	RDTE/Other Research & Development -Mgmt & S	44
	INTEGRATED CHMICAL SENSORS CORP	Mass	ARMY	RDTE/Other Research & Development -Mgmt & S	100
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Other Research & Development -Mgmt & S	107
	ISM TECHNOLOGIES INC	California	ARMY	RDTE/Other Research & Development -Mgmt & S	50
	K S E INC	Mass	ARMY USAF	RDTE/Other Research & Development -Mgmt & S RDTE/Other Research & Development -Mgmt & S	229 50
				COUNTRY TOTAL	279
	KLEIN ASSOCIATES INC	Ohio	USAF	RDTE/Other Research & Development -Mgmt & S	300

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
FISCAL YEAR 1989

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R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION	(AMOUNTS IN THOUSANDS)
AZ16 (CONTINUED)					
	LASER SCIENCE INC	Mass	ARMY	RDTE/Other Research & Development -Mgmt & S	\$ 330
	LASERGENICS CORPORATION	California	USAF	RDTE/Other Research & Development -Mgmt & S	44
	LEHRER PEARSON INC	California	USAF	RDTE/Other Research & Development -Mgmt & S	92
	LIGHTWAVE ELECTRONICS CORP	California	ARMY	RDTE/Other Research & Development -Mgmt & S	106
	LOGISTICS MANAGEMENT ENGRG	Penn	NAVY	RDTE/Other Research & Development -Mgmt & S	355
	LOUISIANA STATE UNIVERSITY	Louisiana	ARMY	RDTE/Other Research & Development -Mgmt & S	68
	LUXTRON CORPORATION	California	NAVY	RDTE/Other Research & Development -Mgmt & S	51
	M L ENERGIA INC	New Jersey	USAF	RDTE/Other Research & Development -Mgmt & S	50
	M P D INC	Ohio	USAF	RDTE/Other Research & Development -Mgmt & S	274
	MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Other Research & Development -Mgmt & S	50
	MANAGEMENT & PERSONNEL SYSTEM	California	ARMY	RDTE/Other Research & Development -Mgmt & S	29
	MARTIN GOFFMAN ASSOC	New Jersey	USAF	RDTE/Other Research & Development -Mgmt & S	49
	MEADOWLARK OPTICS INC	Colorado	USAF	RDTE/Other Research & Development -Mgmt & S	50
	METROLASER	California	USAF	RDTE/Other Research & Development -Mgmt & S	50
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Other Research & Development -Mgmt & S	94
	MIKROS SYSTEMS CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development -Mgmt & S	54t
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Other Research & Development -Mgmt & S	315
	OMNI ANALYSIS INC	Virginia	NAVY	RDTE/Other Research & Development -Mgmt & S	250
	OPTIMA SYSTEMS INC	Mass	ARMY	RDTE/Other Research & Development -Mgmt & S	300
	OPTRA INC	Mass	USAF	RDTE/Other Research & Development -Mgmt & S	48
	DRINCON CORPORATION	California	NAVY	RDTE/Other Research & Development -Mgmt & S	1 207
	ORLANDO TECHNOLOGY INC	Florida	ARMY	RDTE/Other Research & Development -Mgmt & S	55
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Other Research & Development -Mgmt & S	50

Prepared for the Department of Defense by the Defense Contract Audit Agency
This document contains neither recommendations nor conclusions of the Defense Contract Audit Agency. It has been reviewed and approved by the appropriate DoD official.

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT
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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	R&D DESCRIPTION	\$	
AZ16 (CONTINUED)						
	PHYSICAL SCIENCES INC	Mass		RDTE/Other Research & Development-Mgmt & S		107
	PRINCETON SCIENTIFIC INSTRS	New Jersey	ARMY	RDTE/Other Research & Development-Mgmt & S		147
	PROPELLION SCIENCES CO	New York	USAF	RDTE/Other Research & Development-Mgmt & S		49
	Q DOT INC	Colorado	ARMY	RDTE/Other Research & Development-Mgmt & S		275
	QUANTUM DESIGN INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S		441
	QUEST RESEARCH CORPORATION	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S		99
	REFRACTORY COMPOSITES INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		49
	S C S TELECOM INC	New York	NAVY	RDTE/Other Research & Development-Mgmt & S		49
	SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S		50
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		6,259
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Other Research & Development-Mgmt & S		200
		USAF	RDTE/Other Research & Development-Mgmt & S			83
	COUNTRY TOTAL				283	
	SEB ENG INC	Minnesota	USAF	RDTE/Other Research & Development-Mgmt & S		57
	SENSORS HAWAII INC	Hawaii	USAF	RDTE/Other Research & Development-Mgmt & S		41
	SEPARATION INDUSTRIES	New Jersey	ARMY	RDTE/Other Research & Development-Mgmt & S		52
	SIMULA INC	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S		50
		Arizona	ARMY	RDTE/Other Research & Development-Mgmt & S		161
		USAF	RDTE/Other Research & Development-Mgmt & S			148
	COUNTRY TOTAL				309	
	CONTRACTOR TOTAL				359	
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	NAVY	RDTE/Other Research & Development-Mgmt & S		50
	SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Mgmt & S		277
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S		120

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	COUNTRY	DEPT	-R&D DESCRIPTION-	\$	
AZ16 (CONTINUED)						
	SOUTHWEST SCIENCES INC	New Mexico	USAF	RDTE/Other Research & Development-Mgmt & S	\$	50
	SPARTA INC	California	NAVY USAF	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S	\$	331
				COUNTRY TOTAL		49
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Mgmt & S		380
	SUSQUEHANNA RESOURCES ENVRMNT	New York	NAVY	RDTE/Other Research & Development-Mgmt & S		127
	SVERRDRUP TECHNOLOGY INC	Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S		66
	SYSTEMS TECHNOLOGY INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		54
	TANNER RESEARCH INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		892
	TECHNICAL & MGT SVCS CORP	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S		50
	TECUMSEH PRODUCTS COMPANY	California	ARMY	RDTE/Other Research & Development-Mgmt & S		73
	TEKTRONIX INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S		96
	TEXAS TECH UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S		51
	THOMPSON ALUMINUM CASTING CO	Ohio	ARMY	RDTE/Other Research & Development-Mgmt & S		94
	TRANSDUCER RESEARCH INC	Illinois	USAF	RDTE/Other Research & Development-Mgmt & S		50
	TYBRIN CORPORATION	Florida	USAF	RDTE/Other Research & Development-Mgmt & S		329
	U S COMPOSITES CORP	New York	USAF	RDTE/Other Research & Development-Mgmt & S		383
	ULTRAME T	California	USAF	RDTE/Other Research & Development-Mgmt & S		50
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S		49
	UNIVERSAL SENSORS INC	Louisiana	USAF	RDTE/Other Research & Development-Mgmt & S		500
	UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Other Research & Development-Mgmt & S		50
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Research & Development-Mgmt & S		75
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Research & Development-Mgmt & S		83
						104

DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1989
AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME

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AZ16 (CONTINUED)

UNIVERSITY OF TEXAS SYSTEM

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VERITAS

XERAD II

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KAD 161

GRAND TOTAL FOR R&D

Texas ARMY RDTE/Other Research & Development-Mgmt & S
New York ARMY RDTE/Other Research & Development-Mgmt & S
California USAF RDTE/Other Research & Development-Mgmt & S

147,247
23,206,000
\$ 23

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